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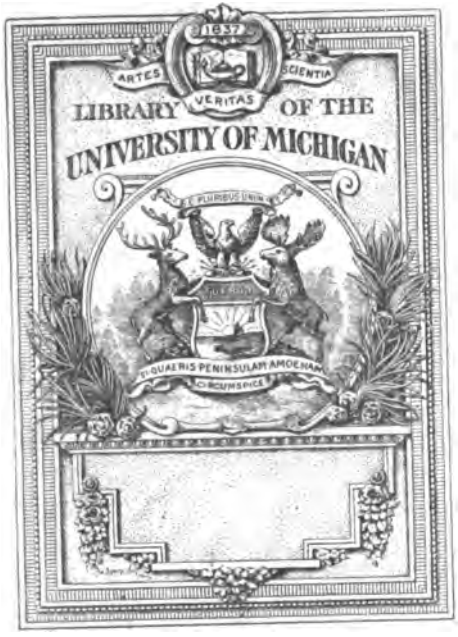

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SMITHSONIAN INSTITUTION
UNITED STATES NATIONAL MUSEUM
Bulletin 79

LIST OF NORTH AMERICAN LAND MAMMALS IN THE UNITED STATES NATIONAL MUSEUM, 1911

BY

GERRIT S. MILLER, Jr.

Curator, Division of Mammals, United States National Museum

WASHINGTON
GOVERNMENT PRINTING OFFICE
1912

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BULLETIN OF THE UNITED STATES NATIONAL MUSEUM.

ISSUED DECEMBER 31, 1912.

II

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ADVERTISEMENT.

The scientific publications of the United States National Museum consist of two series—the *Proceedings* and the *Bulletins*.

The *Proceedings*; the first volume of which was issued in 1878, are intended primarily as a medium for the publication of original, and usually brief, papers based on the collections of the National Museum, presenting newly acquired facts in zoology, geology, and anthropology, including descriptions of new forms of animals, and revisions of limited groups. One or two volumes are issued annually and distributed to libraries and scientific organizations. A limited number of copies of each paper, in pamphlet form, is distributed to specialists and others interested in the different subjects, as soon as printed. The date of publication is printed on each paper, and these dates are also recorded in the tables of contents of the volumes.

The *Bulletins*, the first of which was issued in 1875, consist of a series of separate publications comprising chiefly monographs of large zoological groups and other general systematic treatises (occasionally in several volumes), faunal works, reports of expeditions, and catalogues of type-specimens, special collections, etc. The majority of the volumes are octavos, but a quarto size has been adopted in a few instances in which large plates were regarded as indispensable.

Since 1902 a series of octavo volumes containing papers relating to the botanical collections of the Museum, and known as the *Contributions from the National Herbarium*, has been published as bulletins.

The present work forms No. 79 of the *Bulletin* series.

RICHARD RATHBUN,
Assistant Secretary, Smithsonian Institution,
In charge of the United States National Museum.

WASHINGTON, D. C., *December 10, 1912.*

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PREFACE.

The object of the present Bulletin is twofold: To call attention to the richness of the United States National Museum in North American land mammals, and to furnish a summary of the systematic results of study in this field to the end of the year 1911.[1] North America as here understood is the entire continent from Panama northward, together with Greenland and the Greater and Lesser Antilles. In no other museum is the mammal fauna of so large an area so fully represented. Some idea of the completeness of this representation may be gained from the following tabular synopsis:

Family.	Number of forms recognized.	Number of forms in collection.	Number of forms not represented.	Eutypes.	Hypotypes.	Family.	Number of forms recognized.	Number of forms in collection.	Number of forms not represented.	Eutypes.	Hypotypes.
Didelphiidæ	29	27	2	13	.....	Zapodidæ	20	18	2	11	.....
Solenodontidæ	2	2	.....	.....	.....	Octodontidæ	18	14	4	3	.....
Talpidæ	20	19	1	5	1	Dasyproctidæ	9	6	3	.....	.....
Soricidæ	101	93	8	77	1	Erethizontidæ	11	8	3	2	.....
Emballonuridæ	7	6	1	.....	.....	Aplodontiidæ	6	6	.....	5	.....
Noctilionidæ	2	2	.....	.....	.....	Sciuridæ	261	244	17	132	.....
Phyllostomidæ	98	84	14	26	2	Petauristidæ	18	18	.....	6	.....
Desmodidæ	2	2	.....	.....	.....	Castoridæ	7	6	1	2	.....
Natalidæ	7	7	.....	4	.....	Ochotonidæ	12	10	2	4	.....
Thyropteridæ	1	1	.....	.....	.....	Leporidæ	99	96	3	49	9
Vespertilionidæ	74	67	7	29	3	Bradypodidæ	3	3	.....	.....	.....
Molossidæ	26	24	2	8	1	Myrmecophagidæ	4	4	.....	1	.....
Ursidæ	32	28	3	16	.....	Dasypodidæ	4	3	1	2	.....
Canidæ	65	61	4	40	.....	Saimiridæ	2	1	1	.....	.....
Procyonidæ	32	30	2	13	.....	Aotidæ	2	2	.....	.....	.....
Mustelidæ	132	123	11	52	1	Callitrichidæ	1	1	.....	.....	.....
Felidæ	41	37	4	15	2	Alouattidæ	5	3	2	1	.....
Otariidæ	4	4	.....	1	.....	Cebidæ	2	1	1	.....	.....
Phocidæ	14	14	.....	4	.....	Atelidæ	5	3	2	.....	.....
Odobenidæ	2	2	.....	.....	.....	Tayassuidæ	9	8	1	6	.....
Muridæ	579	525	54	327	32	Cervidæ	52	47	5	16	1
(Cricetinæ)	(336)	(299)	(37)	(175)	(20)	Antilocapridæ	3	3	.....	2	.....
(Neotominæ)	(79)	(76)	(3)	(57)	(7)	Bovidæ	25	20	5	5	.....
(Microtinæ)	(158)	(145)	(13)	(95)	(5)	Tapiridæ	2	2	.....	2	.....
(Murinæ)	(5)	(5)	.....	.....	.....						
Geomyidæ	113	105	8	81	1	Total	2,138	1,955	183	1,075	60
Heteromyidæ	176	167	9	116	6						

While preparing this Bulletin I have received much assistance from members of the Biological Survey. My thanks are especially due to Mr. Edward A. Preble, who has examined the entire proof.

GERRIT S. MILLER, Jr.

SEPTEMBER 1, 1912.

[1] For the sake of completeness, such forms described during the year 1912 as have come to my notice are included.

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LIST OF NORTH AMERICAN LAND MAMMALS IN THE UNITED STATES NATIONAL MUSEUM, 1911.

By GERRIT S. MILLER, Jr.,
Curator, Division of Mammals, United States National Museum.

The collection of North American mammals in the United States National Museum numbers about 120,000 specimens, including 1,135 types. More than five-sixths of this material is in the Biological Survey collection, United States Department of Agriculture,[1] the remainder, containing all of the older, more historic specimens, is in the Museum proper. The material derived from these two sources furnishes so complete a representation of the mammals of North America that of the 2,138 forms now[2] recognized less than 200 are not included.

In preparing this list, with the object of making it fulfill its double purpose, the following plan has been adopted. In 1885[3] Dr. F. W. True published "A Provisional List of the Mammals of North and Central America and the West Indian Islands," a summary of the North American mammal fauna as then known. To the species included in it are added those since recognized, the status of which at the end of the year 1911 had not been questioned in some recent work of definite monographic character, where full synonymy and references may readily be consulted. Forms in regard to whose standing there is difference of opinion, but which have not been treated in such a monographic paper, are included; but in cases of this kind references are given to the conflicting views. An asterisk is placed before the name of each form represented in the national collection.

[1] The number of specimens entered in the catalogues of this collection up to the end of December, 1911, is 107,517. This material, brought together wholly by the activities of the Biological Survey, belongs according to act of Congress (sundry civil act of Mar. 3, 1879), to the United States National Museum. By the same authority it is maintained as a separate collection pending investigations by members of the survey. The wording of the act is as follows: "And all collections of rocks, minerals, soils, fossils, and objects of natural history, archeology, and ethnology, made by the Coast and Interior Survey, the Geological Survey, or by any other parties of the Government of the United States, when no longer needed for the investigations in progress, shall be deposited in the National Museum."

[2] The number known in 1885 was 363; in 1900 this had been increased to about 1,450. (See Miller and Rehn, Proc. Boston Soc. Nat. Hist., vol. 30, p. 1, Dec. 27, 1901.)

[3] Proc. U. S. Nat. Mus., vol. 7, 1884, pp. 587-611 (appendix). 1885.

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A dagger indicates that the type is also here. It is to be clearly understood that, especially in unrevised genera, the indication that a given form is in the collection implies nothing more than the presence of a specimen of the animal on which a particular name was based. The sequence of groups is, in its main features, that adopted by Osborn in his "Age of Mammals," 1910, though the arrangement of the families and genera has been revised to make it as consistently as possible in harmony with that of the higher groups; that is, to begin with the more generalized forms and end with those showing the highest degree of specialization.[1] Under every species and subspecies reference is made to the first publication of the specific or subspecific name. To this, when necessary, is added, (*a*) reference to first use of current binomial or trinomial, (*b*) in the case of species described before 1885, but not at that date admitted as valid, reference to establishment as members of the North American fauna, and (*c*) reference to True's list.[2] References to alterations in generic names are also given, but the concordance with the nomenclature of 1885, being sufficiently indicated by the citations under species, is here omitted. The type locality of each form is stated with all possible exactitude; and in revised genera the ranges are given as printed by the author. All questions of nomenclature have been decided in accordance with the International Zoological Code.

Class MAMMALIA.

Subclass EUTHERIA.

Superorder DIDELPHIA.

Order MARSUPIALIA.

Suborder POLYPROTODONTIA.

Family DIDELPHIIDÆ.[3]

Genus DIDELPHIS Linnæus.[4]

1758. *Didelphis* LINNÆUS, Syst. Nat., ed. 10, vol. 1, p. 54. Type, *Didelphis marsupialis* LINNÆUS.

[1] This portion of the work, together with a review of the status of genera and subgenera, is the result of original investigation; elsewhere the strictly historical method has been adhered to as closely as possible except in cases where it would cause the perpetuation of obvious errors.

[2] No attempt is made with the many species which prove to have been composite as understood in 1885 to apportion the name then used to each of the component parts as they now stand. The word "part" in parenthesis, after the reference, indicates that segregation has taken place.

[3] For discussions of the nomenclature of certain genera of this family see Rehn, Amer. Nat., vol. 34, pp. 576–577, July, 1900; Allen, Bull. Amer. Mus. Nat. Hist., vol. 13, pp. 185–190, October 12, 1900; Thomas, Amer. Nat., vol. 35, pp. 144–145, February, 1901.

[4] Revised by Allen, Bull. Amer. Mus. Nat. Hist., vol. 14, pp. 149–188, June 15, 1901.

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***Didelphis virginiana virginiana** Kerr.

1792. *Didelphis virginiana* KERR, Anim. Kingd., p. 193.

1885. *Didelphys virginiana* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 587. 1885.

TYPE LOCALITY.—Virginia.

RANGE.—From the Great Lakes southward to Oklahoma, northern Texas, and nearly to the Gulf Coast; east to the lower Hudson Valley and Long Island.

***Didelphis virginiana pigra** Bangs.

1898. *Didelphis virginiana pigra* BANGS, Proc. Boston Soc. Nat. Hist., vol. 28, p. 172. March, 1898.

TYPE LOCALITY.—Oak Lodge, opposite Micco, Brevard County, Florida.

RANGE.—Florida, the lower coast region of Georgia, and the low Gulf Coast belt as far as western Louisiana.

***Didelphis marsupialis marsupialis** Linnæus.

1758. [*Didelphis*] *marsupialis* LINNÆUS, Syst. Nat., 10 ed., vol. 1, p. 54.

1833. *Didelphis californica* BENNETT, Proc. Zool. Soc. London, p. 40.

TYPE LOCALITY.—Mexico (Valley of Mexico, by restriction).

RANGE.—From the coast of southern Tamaulipas south to Guatemala and west to the Pacific coast of Sinaloa and Guatemala.

†*Didelphis marsupialis texensis Allen.

1901. *Didelphis marsupialis texensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 14, p. 172. June 15, 1901.

TYPE LOCALITY.—Brownsville, Cameron County, Texas.

RANGE.—The coast region of Texas from Nueces Bay southward, and the lower Rio Grande Valley, as far up the valley at least as Del Rio, Val Verde County.

†*Didelphis marsupialis tabascensis Allen.

1901. *Didelphis marsupialis tabascensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 14, p. 173. June 15, 1901.

TYPE LOCALITY.—Teapa, Tabasco, Mexico.

RANGE.—From the vicinity of Vera Cruz to Frontera, Tabasco, and across the State of Chiapas to northern Guatemala.

Didelphis marsupialis battyi Thomas.

1902. *Didelphis marsupialis battyi* THOMAS, Novitates Zoologicæ, vol. 9, p. 137. April, 1902.

TYPE LOCALITY.—Coiba Island, Panama.

***Didelphis marsupialis insularis** Allen (see page 399).

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†*Didelphis richmondi Allen.

1901. *Didelphis richmondi* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 14, p. 175. June 15, 1901.

TYPE LOCALITY.—Greytown, Nicaragua.

†*Didelphis yucatanensis yucatanensis Allen.

1901. *Didelphis yucatanensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 14, p. 178. June 15, 1901.[1]

TYPE LOCALITY.—Chichenitza, Yucatan.

†*Didelphis yucatanensis cozumelæ Merriam.

1901. *Didelphis yucatanensis cozumelæ* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 101. July 19, 1901.

TYPE LOCALITY.—Cozumel Island, Yucatan.

Genus MARMOSA Gray.

1821. *Marmosa* GRAY, London Med. Repos., vol. 15, p. 308. April 1, 1821. Type, *Didelphis murina* LINNÆUS.

For use of this name in place of *Micoureus* LESSON (Nouv. Tabl. Règne Animal, p. 186, 1842) see Thomas, Ann. and Mag. Nat. Hist., ser. 6, vol. 16, p. 58, July, 1895.

*Marmosa canescens (Allen).

1893. *Didelphis* (*Micoureus*) *canescens* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 5, p. 235. September 22, 1893.

1897. *Marmosa canescens* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 9, p. 58. March 15, 1897.

TYPE LOCALITY.—Santo Domingo de Guzman, Isthmus of Tehauntepec, Mexiço.

*Marmosa chapmani Allen (see page 399).

*Marmosa cinerea (Temminck).

1827. *Didelphis cinerea* TEMMINCK, Monogr. Mamm., vol. 1, p. 46.

1885. *Didelphys cinerea* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 587. 1885.

1897. *Marmosa cinerea* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 9, p. 43. March 11, 1897.

TYPE LOCALITY.—Brazil. (Ranges north to Costa Rica.)

Marmosa fulviventer Bangs.

1901. *Marmosa fulviventer* BANGS, Amer. Nat., vol. 35, p. 632. August, 1901.

TYPE LOCALITY.—San Miguel Island, Panama.

[1] *Didelphis nelsoni* ALLEN, p. 180, a nomen nudum, may have been intended to apply to this species.

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†*Marmosa insularis Merriam.

1898. *Marmosa insularis* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 14. January 27, 1898.

TYPE LOCALITY.—Maria Madre Island, Tres Marias Islands, State of Jalisco, Mexico.

†*Marmosa isthmica Goldman.

1912. *Marmosa isthmica* GOLDMAN, Smiths. Misc. Coll., vol. 56, No. 36, p. 1. February 19, 1912.

TYPE LOCALITY.—Rio Indio, near Gatun, Canal Zone, Panama.

*Marmosa murina murina (Linnæus).

1758. [*Didelphis*] *murina* LINNÆUS, Syst. Nat., ed. 10, vol. 1, p. 55.

1885. *Didelphys murinus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 587. 1885.

1895. *Marmosa murina* THOMAS, Ann. and Mag. Nat. Hist., ser. 6, vol. 16, p. 58. July, 1895.

TYPE LOCALITY.—Probably Surinam.[1] (Supposed to range northward into Central America.)

†*Marmosa murina mexicana Merriam.

1897. *Marmosa murina mexicana* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 44. March 16, 1897.

TYPE LOCALITY.—Juquila, State of Oaxaca, Mexico.

†*Marmosa oaxacæ Merriam.

1897. *Marmosa oaxacæ* MERRIAM, Proc Biol. Soc. Washington, vol. 11, p. 43. March 16, 1897.

TYPE LOCALITY.—City of Oaxaca, Oaxaca, Mexico.

†*Marmosa ruatanica Goldman.

1911. *Marmosa ruatanica* GOLDMAN, Proc. Biol. Soc. Washington, vol. 24, p. 237. November 28, 1911.

TYPE LOCALITY.—Ruatan Island, Honduras.

*Marmosa sinaloæ Allen.

1898. *Marmosa sinaloæ* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 143. April 12, 1898.

TYPE LOCALITY.—Tatemales, State of Sinaloa, Mexico.

†*Marmosa zeledoni Goldman.

1911. *Marmosa zeledoni* GOLDMAN, Proc. Biol. Soc. Washington, vol. 24, p. 238. November 28, 1911.

TYPE LOCALITY.—Navarro, Costa Rica.

[1] Thomas, Proc. Zool. Soc. London, 1911, p. 144.

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Genus METACHIRUS Burmeister.

1854. *Metachirus* BURMEISTER, Thiere Brasil., vol. 1, p. 135. Type, *Didelphys myosurus* TEMMINCK = *D. nudicaudata* GEOFFROY.

***Metachirus fuscogriseus fuscogriseus** Allen.

1885. *Didelphys quica* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 587. 1885. (Not of Temminck.)

1900. *Metachirus fuscogriseus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 13, p. 194. October 23, 1900.

TYPE LOCALITY.—Central America, exact locality not known.[1]

†*Metachirus fuscogriseus pallidus Allen.

1901. *Metachirus fuscogriseus pallidus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 14, p. 215. July 3, 1901.

TYPE LOCALITY.—Orizaba, Vera Cruz, Mexico.

†*Metachirus nudicaudatus dentaneus Goldman.

1912. *Metachirus nudicaudatus dentaneus* GOLDMAN, Smiths. Misc. Coll., vol. 56, No. 36, p. 2. February 19, 1912.

TYPE LOCALITY.—Gatun, Canal Zone, Panama.

Genus CALUROMYS Allen.

1900. *Caluromys* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 13, p. 189. October 12, 1900. Type, *Didelphis philander* LINNÆUS.

***Caluromys alstoni** Allen.

1900. *Caluromys alstoni* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 13, p. 189. October 12, 1900.

TYPE LOCALITY.—Tres Rios, Costa Rica.

***Caluromys derbianus** (Waterhouse).

1841. *Didelphys derbianus* WATERHOUSE, Jardine's Natur. Library, Mamm., vol. 11, p. 97.

1885. *Didelphys derbianus* TRUE, Proc. U. S. Nat. Mus., vol. 7. (1884), p. 587. 1885.

1900. *Caluromys derbianus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 13, p. 189. October 12, 1900.

TYPE LOCALITY.—Unknown. (Ranges north to Nicaragua.)

***Caluromys laniger pallidus** (Thomas).

1899. *Philander laniger pallidus* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 4, p. 286. October, 1899.

1900. *Caluromys laniger pallidus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 13, p. 189. October 12, 1900.

TYPE LOCALITY.—Bogava, Chiriqui, Panama. Altitude, 250 meters.

[1] "The specimen was found in a bunch of bananas in unloading a fruit steamer from a Central-American port, most likely Colon, after its arrival alive in New York Harbor." (Allen.)

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Genus CHIRONECTES Illiger.

1811. *Chironectes* ILLIGER, Prodr. Syst. Mamm. et Avium, p. 76. Type, *Lutra minima* ZIMMERMANN.

***Chironectes minimus** (Zimmermann).

1780. *Latra* [sic] *minima* ZIMMERMANN, Geogr. Gesch., vol. 2, p. 317.

1885. *Chironectes variegatus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 587. 1885.

1887. *Chironectes minimus* LYDEKKER, Catal. Foss. Mamm. Brit. Mus., pt. 5, p. 289.

TYPE LOCALITY.—Guiana. (Ranges north into Central America.)

Superorder MONODELPHIA.

Order INSECTIVORA.

Family SOLENODONTIDÆ.

Genus SOLENODON Brandt.

1833. *Solenodon* BRANDT, Mém. Acad. Imp. Sci., St. Pétersbourg, ser. 6, vol. 2, p. 459. Type, *Solenodon paradoxus* BRANDT.

***Solenodon paradoxus** Brandt.

1833. [*Solenodon*] *paradoxus* BRANDT, Mém. Acad. Imp. Sci., St. Pétersbourg, ser. 6, vol. 2, p. 459.

1885. *Solenodon paradoxus* TRUE, Proc. U. S. Nat. Mus., vol. 7, (1884), p. 607. 1885.

TYPE LOCALITY.—Hayti.

***Solenodon cubanus** Peters.

1861. *Solenodon cubanus* PETERS, Monatsber. k. preuss. Akad. Wissensch. Berlin, p. 169.

1885. *Solenodon cubanus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 607. 1885.

TYPE LOCALITY.—Mountains near Bayamon, Cuba.

Family TALPIDÆ.

Subfamily SCALOPINÆ.

Genus SCALOPUS Geoffroy.[1]

1804. *Scalopus* GEOFFROY, Catal. Mamm. Mus. Nat. Hist. Nat., Paris, p. 77. Type, *Sorex aquaticus* LINNÆUS.

***Scalopus aquaticus aquaticus** (Linnæus).

1758. [*Sorex*] *aquaticus* LINNÆUS, Syst. Nat., ed. 10, vol. 1, p. 53.

1825. *Scalops aquaticus* F. CUVIER, Dents des Mamm., p. 251.

1885. *Scalops aquaticus aquaticus* TRUE, Proc. U. S. Nat. Mus., vol 7, 1884, p. 606. 1885.

TYPE LOCALITY.—Eastern United States.

[1] Revised by True, Proc. U. S. Nat. Mus., vol. 19, pp. 19–47, December 21, 1896.

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***Scalopus aquaticus machrinus** (Rafinesque).

1832. *Talpa machrina* RAFINESQUE, Atlantic Journal, vol. 1, p. 61.

1885. *Scalops aquaticus argentatus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 606. 1885.

1896. *Scalops aquaticus machrinus* TRUE, Proc. U. S. Nat. Mus., vol. 19, p. 20. December 21, 1896.

TYPE LOCALITY.—Near Lexington, Fayette County, Kentucky.

RANGE.—Mississippi Valley, from Tennessee and Missouri northward to Wisconsin and Minnesota, and westward to eastern Kansas and Nebraska and southwestern South Dakota, Manitoba?

Regarded by Elliot (Field Columb. Mus., publ. 37, zool. ser., vol. 1, p. 280, May 9, 1899) as a distinct species.

***Scalopus aquaticus intermedius** (Elliot).

1899. *Scalops machrinus intermedius* ELLIOT, Field Columb. Mus., publ. 37, zool. ser., vol. 1, p. 280. May 9, 1899.

1901. *Scalops aquaticus intermedius* MILLER and REHN, Proc. Boston Soc. Nat. Hist., vol. 30, p. 250. December 27, 1901.

TYPE LOCALITY.—Alva, Woods County, Oklahoma.

***Scalopus aquaticus æreus** (Bangs).

1896. *Scalops texanus æreus* BANGS, Proc. Biol. Soc. Washington, vol. 10, p. 138. December 28, 1896.

1901. *Scalops aquaticus æreus* MILLER and REHN, Proc. Boston Soc. Nat. Hist., vol. 30, p. 250. December 27, 1901.

TYPE LOCALITY.—Stilwell, Adair County, Oklahoma.

***Scalopus aquaticus australis** Chapman.

1893. *Scalops aquaticus australis* CHAPMAN, Bull. Amer. Mus. Nat. Hist., vol. 5, p. 339. December 22, 1893.

TYPE LOCALITY.—Gainesville, Alachua County, Florida.

RANGE.—Eastern Florida, south to Lake Worth and Orange Hammock (De Soto County), western Florida, Tarpon Springs.

***Scalopus aquaticus texanus** (Allen).

1891. *Scalops argentatus texanus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 221. April 29,1891.

1896. *Scalops acquaticus texanus* TRUE, Proc. U. S. Nat. Mus., vol. 19, p. 21. December 21, 1896.

TYPE LOCALITY.—Texas; "given by Dr. J. A. Allen as Presidio County, Texas, but believed to be Aransas County" (see True, Proc. U. S. Nat. Mus., vol. 19, p. 22, December 21, 1896.)

RANGE.—Coast of Texas.

Scalopus anastasæ Bangs.

1898. *Scalops anastasæ* BANGS, Proc. Boston Soc. Nat. hist., vol. 28, p. 212. March, 1898.

TYPE LOCALITY.—Point Romo, Anastasia Island, St. John County, Florida.

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Genus SCAPANUS Pomel.[1]

1848. *Scapanus* POMEL, Arch. Sci. Phys. Nat. Genève, vol. 9, p. 247. Type, *Scalops townsendii* BACHMAN.

***Scapanus townsendii** (Bachman).

1839. *Scalops townsendii* BACHMAN, Journ. Acad. Nat. Sci., Phila., vol. 8, pt. 1, p. 58.

1848. *Scapanus tow[n]sendii* POMEL, Arch. Sci. Phys. Nat. Genève, ser. 4, vol. 9, p. 247.

1885. *Scapanus townsendii* TRUE, Proc. U. S. Nat. Mus. vol. 7 (1884), p. 607. 1885.

TYPE LOCALITY.—Vicinity of Vancouver, Clarke County, Washington (see True, Proc. U. S. Nat. Mus., vol. 19, p. 63, December 21, 1896).

RANGE.—Washington and Oregon, between the Cascade Mountains and Coast Range, extending in the extreme northwestern portion of California to Crescent City.

†*Scapanus orarius True.

1896. *Scapanus orarius* TRUE, Proc. U. S. Nat. Mus., vol. 19, p. 52. December 21, 1896.

TYPE LOCALITY.—Shoalwater Bay, Pacific County, Washington.

RANGE.—Seacoast of Washington and Oregon, from the Coquille River northward, and along the shores of Puget Sound to Simiahmoo and to Chiloweyuck Depot and Sumas, British Columbia. Fort Walla Walla, Washington.

***Scapanus latimanus latimanus** (Bachman).

1842. *Scalops latimanus* BACHMAN, Boston Journ. Nat. Hist., vol. 4, p. 34.

1855. *Scalops californicus* AYRES, Proc. California Acad. Nat. Sci., vol. 1, p. 54.

†1894. *Scapanus dilatus* TRUE, Diagnoses of New North American mammals, p. 2. April 26, 1894. (Reprint: Proc. U. S. Nat. Mus., vol. 17, p. 242. November 15, 1894.) Fort Klamath, Klamath County, Oregon.

1907. *Scapanus latimanus* OSGOOD, Proc. Biol. Soc. Washington vol. 20, p. 52. April 18, 1907.

TYPE LOCALITY.—Santa Clara, Santa Clara County, California.

RANGE.—All California west of the Coast Range (except the extreme northwestern portion), and the Sierra Navadas at varying altitudes, and east thereof at Owens Lake, Lake City (Modoc County), and Lake Tahoe, California, and Fort Klamath, Oregon.

[1] Revised by True, Proc. U. S. Nat. Mus., vol. 19, pp. 47-67, December 21, 1896.

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***Scapanus latimanus minusculus** (Bangs).

1899. *Scapanus californicus minusculus* BANGS, Proc. New England Zool. Club, vol. 1, p. 70. July 31, 1899.

TYPE LOCALITY.—Fyffe, El Dorado County, California.

***Scapanus latimanus occultus** Grinnell and Swarth.

1912. *Scapanus latimanus occultus* GRINNELL and SWARTH, Univ. Calif. Publ. Zool., vol. 10, p. 131. April 13, 1912.

TYPE LOCALITY.—Santa Ana Canyon at 400 feet altitude, Orange County, California.

†*Scapanus alpinus Merriam.

1897. *Scapanus alpinus* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 102. April 26, 1897.

TYPE LOCALITY.—Crater Lake, Mount Mazama, Klamath County, Oregon. Altitude, 7,000 feet.

†*Scapanus truei Merriam.

1897. *Scapanus truei* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 102. April 26, 1897.

TYPE LOCALITY.—Lake City, Modoc County, California.

***Scapanus anthonyi** Allen.

1893. *Scapanus anthonyi* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 5, p. 200. August 18, 1893.

TYPE LOCALITY.—San Pedro Martir Mountains, Lower California, Mexico. Altitude, 7,000 feet.

Genus PARASCALOPS True.[1]

1894. *Parascalops* TRUE, Diagnoses of new North American mammals, p. 2. April 26, 1894. (Reprint: Proc. U. S. Nat. Mus., vol. 17, p. 242. November 15, 1894.) Type, *Scalops breweri* BACHMAN.

***Parascalops breweri** (Bachman).

1844. *Scalops breweri* BACHMAN, Boston Journ. Nat. Hist., vol. 4, p. 32.

1885. *Scapanus breweri* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 606. 1885.

1895. *Parascalops breweri* TRUE, Science, n. s., vol. 1, p. 101. January 25, 1895.

TYPE LOCALITY.—Unknown; type supposed by Bachman to have been taken on the island of Marthas Vineyard, Massachusetts, a locality where the animal probably does not occur.

RANGE.—From the mountains of North Carolina and West Virginia, and southeastern Ohio, northeastward across Pennsylvania, New Jersey, New York, and the New England States to New Brunswick.

[1] Revised by True, Proc. U. S. Nat. Mus., vol. 19, pp. 67–77, December 21, 1896.

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Genus NEÜROTRICHUS Günther.[1]

1880. *Neürotrichus* GÜNTHER, Proc. Zool. Soc. London, p. 441. Type, *Urotrichus gibbsii* BAIRD.

†*Neürotrichus gibbsii gibbsii (Baird).

1857. *Urotrichus gibbsii* BAIRD, Mamm. N. Amer., p. 76.

1880. *Nëurotrichus* [sic] *gibbsi* GÜNTHER, Proc. Zool. Soc. London, pl. 42.

1885. *Neürotrichus gibbsii* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 607. 1885.

TYPE LOCALITY.—White River Pass, north of Mount Rainier, Pierce County, Washington.

RANGE.—Pacific Coast of North America west of the Cascade and Sierra Nevada Mountains, from Fraser River, British Columbia, to northern California.

*Neürotrichus gibbsii hyacinthinus Bangs.

1897. *Neürotrichus gibbsi hyacinthinus* BANGS, Amer. Nat., vol. 31, p. 240. March, 1897.

TYPE LOCALITY.—Nicasio, Marin County, California.

†*Neürotrichus gibbsii major Merriam.

1899. *Neurotrichus gibbsi major* MERRIAM, North Amer. Fauna, no. 16, p. 88. October 28, 1899.

TYPE LOCALITY.—Carberry Ranch, between Mount Shasta and Mount Lassen, Shasta County, California. Altitude, 4,100 feet.

Subfamily CONDYLURINÆ.

Genus CONDYLURA Illiger.[2]

1811. *Condylura* ILLIGER, Prodr. Syst. Mamm. et Avium, p. 125. Type, *Sorex cristatus* LINNÆUS.

*Condylura cristata (Linnæus).

1758. [*Sorex*] *cristatus* LINNÆUS, Syst. Nat., ed. 10, vol. 1, p. 53.

1819. *Condylura cristata* DESMAREST, Journ. de Phys., vol. 89, p. 230.

1885. *Condylura cristata* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 607. 1885.

TYPE LOCALITY.—Pennsylvania.

RANGE.—Rupert House and Moose Factory (Hudson Bay), Quebec, Ontario, and Manitoba on the north, southward to Minnesota on the west, to Virginia on the Atlantic Coast, and in the Allegheny Mountains to the boundary of South Carolina.

[1] Revised by True, Proc. U. S. Nat. Mus., vol. 19, pp. 98–106, December 21, 1896.

[2] Revised by True, Proc. U. S. Nat. Mus., vol. 19, pp. 77–98, December 21, 1896.

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Family SORICIDÆ.

Subfamily SORICINÆ.

Genus SOREX Linnæus.[1]

1758. *Sorex* LINNÆUS, Syst. Nat., ed. 10, vol. 1, p. 53. Type *Sorex araneus* LINNÆUS.

***Sorex personatus personatus** I. Geoffroy.

1827. *Sorex personatus* I. GEOFFROY, Mém. Mus. Hist. Nat., Paris, vol. 15, p. 122.

1885. *Sorex platyrhinus* and *Sorex cooperi* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 606. 1885.

(See note, page 399.)

†1891. *Sorex idahoensis* MERRIAM, North Amer. Fauna, No. 5, p. 32. July 30, 1891. Timber Creek, Salmon River Mountains, Idaho.

TYPE LOCALITY.—Eastern United States.

RANGE.—Boreal and Transition Zones of North America from New England to Alaska, except the southern Rocky Mountains and the Cascade-Sierra systems; south in the higher Alleghenies to Tennessee and North Carolina.

†*Sorex personatus haydeni (Baird).

1857. *Sorex haydeni* BAIRD, Mamm. N. Amer., p. 29.

1896. *Sorex personatus haydeni* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 8, p. 257. November 25, 1896.

TYPE LOCALITY.—Fort Union, near present town of Buford, North Dakota.

Sorex personatus miscix Bangs.

1899. *Sorex personatus miscix* BANGS, Proc. New England Zool. Club, vol. 1, p. 15. February 28, 1899.

TYPE LOCALITY.—Black Bay, Strait of Belle Isle, Labrador.

†*Sorex personatus arcticus Merriam.

1900. *Sorex personatus arcticus* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 17. March 14, 1900.

TYPE LOCALITY.—St. Michaels, Norton Sound, Alaska.

†*Sorex personatus streatori Merriam.

1895. *Sorex personatus streatori* MERRIAM, North Amer. Fauna, No. 10, p. 62. December 31, 1895.

TYPE LOCALITY.—Yakutat, Alaska.

RANGE.—Southeastern Alaska.

[1] Revised by Merriam, North Amer. Fauna, No. 10, pp. 57–89, December 31, 1895, and Hollister, Proc. U. S. Nat. Mus., vol. 40, pp. 377–381, April 17, 1911.

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†*Sorex fontinalis Hollister.

1895. [*Sorex personatus*] *lesueuri* MERRIAM, North Amer. Fauna, No. 10, p. 61. December 31, 1895. (Part.)

1911. *Sorex fontinalis* HOLLISTER, Proc. U. S. National Museum, vol. 40, p. 378. April 17, 1911.

TYPE LOCALITY.—Near Beltsville, Prince George County, Maryland.

RANGE.—Sphagnum bogs near the District of Columbia.

*Sorex dispar Batchelder.

1896. *Sorex macrurus* BATCHELDER, Proc. Biol. Soc. Washington, vol. 10, p. 133. December 8, 1896. (Not of Lehmann, 1822).

1911. *Sorex dispar* BATCHELDER, Proc. Biol. Soc. Washington, vol. 24, p. 97. May 15, 1911. (Substitute for *macrurus*.)

TYPE LOCALITY.—Beedes (sometimes called Keene Heights), Essex County, New York.

RANGE.—Adirondack and Catskill Mountains, New York; also in the mountains of West Virginia.

*Sorex richardsonii Bachman.

1837. *Sorex richardsonii* BACHMAN, Journ. Acad. Nat. Sci. Phila., vol. 7, pt. 2, p. 383.

1895. *Sorex richardsoni* MILLER, North Amer. Fauna, No. 10, p. 48. December 31, 1895.

TYPE LOCALITY.—Unknown; probably plains of Saskatchewan, Canada.

RANGE.—Plains of Saskatchewan and boreal parts of Minnesota and Wisconsin; north to lower Mackenzie Valley.

†*Sorex tundrensis Merriam.

1900. *Sorex tundrensis* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 16. March 14, 1900.

TYPE LOCALITY.—St. Michaels, Norton Sound, Alaska.

†*Sorex sphagnicola Coues.

1877. *Sorex sphagnicola* COUES, Bull. U. S. Geol. and Geogr. Surv. Terr., vol. 3, p. 650. May 15, 1877.

1885. *Sorex sphagnicola* TRUE, Proc. U. S. Nat. Mus., vol. 7, (1884), p. 606. 1885.

TYPE LOCALITY.—Vicinity of Fort Liard, northwestern British Columbia, Canada.

RANGE.—Subarctic America from extreme northern British Columbia (and probably Alaska) to Hudson Bay.

(See note, page 399.)

*Sorex fumeus Miller.

1885. *Sorex forsteri* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 606. 1885.

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Sorex fumeus—Continued.

1895. *Sorex fumeus* MILLER, North Amer. Fauna, No. 10, p. 50. December 31, 1895.

TYPE LOCALITY.—Peterboro, Madison County, New York.

RANGE.—Canadian and upper part of Transition faunas of eastern United States; southward in higher Alleghenies to mountains of North Carolina and Tennessee.

†***Sorex vagrans vagrans** Baird.

1857. *Sorex vagrans* BAIRD, Mamm. N. Amer., p. 15.

1891. *S[orex] vagrans* MERRIAM, North Amer. Fauna, No. 5, p. 34. July 30, 1891.

TYPE LOCALITY.—Shoalwater Bay, Washington.

RANGE.—Southern British Columbia, western Washington and Oregon, and northern California (south on the coast to Monterey and in the mountains to old Fort Crook and Cassel). Restricted to lower Boreal and upper Transition zones.

†***Sorex vagrans dobsoni** (Merriam).

1891. *Sorex dobsoni* MERRIAM, North Amer. Fauna, No. 5, p. 33. July 30, 1891.

1895. *Sorex vagrans dobsoni* MERRIAM, North Amer. Fauna, No. 10, p. 68. December 31, 1895.

TYPE LOCALITY.—Saw Tooth or Alturas Lake, east base of Saw Tooth Mountains, central Idaho. Altitude, about 7,200 feet.

RANGE.—Rocky Mountain region in northern Idaho and western Montana; also isolated mountains in Montana (Big Snowy and Pryor Mountains), Wyoming (Big Horn Mountains), and Utah (Wasatch Mountains). Restricted to lower Boreal and upper Transition zones.

†***Sorex vagrans monticola** (Merriam).

1890. *Sorex monticolus* MERRIAM, North Amer. Fauna, No. 3, p. 43. September 11, 1890.

1895. *Sorex vagrans monticola* MERRIAM, North Amer. Fauna, No. 10, p. 69. December 31, 1895.

TYPE LOCALITY.—San Francisco Mountain, Coconino County, Arizona. Altitude, 11,500 feet.

RANGE.—Arizona (San Francisco Mountain, Springerville, Chiricahua Mountains).

Sorex oreinus Elliot.

1903. *Sorex oreinus* ELLIOT, Field Columb. Mus., publ. 74, zool. ser., vol. 3, p. 172. April, 1903.

TYPE LOCALITY.—Aguaje de las Fresas, San Pedro Martir Mountains, Lower California, Mexico. Altitude, 6,000 feet.

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Sorex setosus Elliot.

1899. *Sorex setosus* ELLIOT, Field Columb. Mus., publ. 32, zool. ser., vol. 1, p. 274. March, 1899.

TYPE LOCALITY.—Happy Lake, Olympic Mountains, Clallam County, Washington.

†***Sorex amœnus** Merriam.

1895. *Sorex amœnus* MERRIAM, North Amer. Fauna, No. 10, p. 69. December 31, 1895.

TYPE LOCALITY.—Mammoth Pass, head of Owens River, east slope of the Sierra Nevada Mountains, California. Altitude, about 10,000 feet.

RANGE.—Sierra Nevada Mountains, California.

†***Sorex vancouverensis** Merriam.

1895. *Sorex vancouverensis* MERRIAM, North Amer. Fauna, No. 10, p. 70. December 31, 1895.

TYPE LOCALITY.—Goldstream, Vancouver Island, British Columbia, Canada.

RANGE.—Vancouver Island.

†***Sorex orizabæ** Merriam.

1895. *Sorex orizabæ* MERRIAM, North Amer. Fauna, No. 10, p. 71. December 31, 1895.

TYPE LOCALITY.—Mount Orizaba, State of Puebla, Mexico. Altitude, 9,500 feet.

RANGE.—Southern Mexico.

†***Sorex nevadensis** Merriam.

1895. *Sorex nevadensis* MERRIAM, North Amer. Fauna, No. 10, p. 71. December 31, 1895.

TYPE LOCALITY.—Reese River, Lander County, Nevada.

RANGE.—Interior of the Great Basin.

†***Sorex obscurus obscurus** Merriam.

1891. *Sorex vagrans similis* MERRIAM, North Amer. Fauna, No. 5, p. 34. July 30, 1891. Not of Hensel, 1855.

1895. *Sorex obscurus* MERRIAM, North Amer. Fauna, No. 10, p. 72. December 31, 1895. (Substitute for *similis* Merriam.)

TYPE LOCALITY.—Timber Creek, Salmon River Mountains, Idaho. Altitude, 8,200 feet.

RANGE.—British Columbia and mountains of western Washington, Idaho, Montana, Wyoming, Utah, and Colorado; south along the High Sierra Nevada in California to Mount Whitney. Restricted to Boreal zone.

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†*Sorex obscurus ventralis Merriam.

1895. *Sorex obscurus ventralis* MERRIAM, North Amer. Fauna, No. 10, p. 75. December 31, 1895.

TYPE LOCALITY.—Cerro San Felipe, State of Oaxaca, Mexico. Altitude, 10,000 feet.

RANGE.—Oaxaca, Mexico

†*Sorex glacialis Merriam.

1900. *Sorex glacialis* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 16. March 14, 1900.

TYPE LOCALITY.—Point Gustavus, on east side of entrance to Glacier Bay, Alaska.

†*Sorex longicauda longicauda (Merriam).

1895. *Sorex obscurus longicauda* MERRIAM, North Amer. Fauna, No. 10, p. 74. December 31, 1895.

1900. *S[orex] longicauda* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 16. March 14, 1900.

TYPE LOCALITY.—Wrangel, Alaska.

RANGE.—Coast of southeast Alaska, from Wrangel southward; also coast of Washington including Puget Sound and Skagit Valley.

†*Sorex longicauda elassodon Osgood.

1901. *Sorex longicauda elassodon* OSGOOD, North Amer. Fauna, No. 21, p. 35. September 26, 1901.

TYPE LOCALITY.—Cumshewa Inlet, Moresby Island, Queen Charlotte Islands, British Columbia.

†*Sorex longicauda prevostensis Osgood.

1901. *Sorex longicauda prevostensis* OSGOOD, North Amer. Fauna, No. 21, p. 35. September 26, 1901.

TYPE LOCALITY.—Prevost Island, Queen Charlotte Islands, British Columbia.

†*Sorex alascensis alascensis (Merriam).

1895. *Sorex obscurus alascensis* MERRIAM, North Amer. Fauna, No. 10, p. 76. December 31, 1895.

1900. *S[orex] alascensis* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 18. March 14, 1900.

TYPE LOCALITY.—Yakutat Bay, Alaska.

†*Sorex alascensis shumaginensis Merriam.

1900. *Sorex alascensis shumaginensis* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 18. March 14, 1900.

TYPE LOCALITY.—Popof Island, Shumagin Islands, Alaska.

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†*Sorex salvini Merriam.

1897. *Sorex salvini* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 229. July 15, 1897.

TYPE LOCALITY.—Calel, Totonicapan, Guatemala. Altitude, 10,200 feet.

†*Sorex oreopolus Merriam.

1892. *Sorex oreopolus* MERRIAM, Proc. Biol. Soc. Washington, vol. 7, p. 173. September 29, 1892.

TYPE LOCALITY.—North slope of Sierra Nevada of Colima, State of Jalisco, Mexico. Altitude, 10,000 feet.

†*Sorex bairdi Merriam.

1895. *Sorex bairdi* MERRIAM, North Amer. Fauna, No. 10, p. 77. December 31, 1895.

TYPE LOCALITY.—Astoria, mouth of the Columbia River, Clatsop County, Oregon.

RANGE.—Coast of Oregon at mouth of Columbia River.

†*Sorex trowbridgii Baird.

1857. *Sorex trowbridgii* BAIRD, Mamm. N. Amer., p. 13.

1885. *Sorex trowbridgei* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 606. 1885.

TYPE LOCALITY.—Astoria, mouth of the Columbia River, Clatsop County, Oregon.

RANGE.—Western Washington and Oregon, west of Cascade Range.

†*Sorex montereyensis Merriam.

1895. *Sorex montereyensis* MERRIAM, North Amer. Fauna, No. 10, p. 79. December 31, 1895.

TYPE LOCALITY.—Monterey, Monterey County, California.

RANGE.—Coast strip and Sierra Nevada of California; south on the coast at least to Morro and San Luis Obispo; south in the Sierra to Sequoia National Park and East Fork Kaweah River.

†*Sorex ornatus Merriam.

1895. *Sorex ornatus* MERRIAM, North Amer Fauna, No. 10, p. 79. December 31, 1895.

TYPE LOCALITY.—Head of San Emigdio Canyon, Mount Pinos, Monterey County, California.

RANGE.—Mountains of southern California, from head of Ventura River and Mount Pinos easterly to San Bernardino Peak, and south through the San Jacinto Range to Santa Ysabel.

Digitized by Google

†*Sorex lagunæ Nelson and Goldman.

1909. *Sorex lagunæ* NELSON and GOLDMAN, Proc. Biol. Soc. Washington, vol. 22, p. 27. March 10, 1909.

TYPE LOCALITY.—Socorro, 15 miles south of San Quintin, Lower California, Mexico.

†*Sorex californicus californicus Merriam.

1895. *Sorex californicus* MERRIAM, North Amer. Fauna, No. 10, p. 80. December 31, 1895.

TYPE LOCALITY.—Walnut Creek, Contra Costa County, California.

RANGE.—Sonoma, Contra Costa, and Alameda Counties, central California.

†*Sorex californicus juncensis Nelson and Goldman.

1909. *Sorex californicus juncensis* NELSON and GOLDMAN, Proc. Biol. Soc. Washington, vol. 22, p. 27. March 10, 1909.

TYPE LOCALITY.—Socorro, 15 miles south of San Quintin, Lower California, Mexico.

†*Sorex shastensis Merriam.

1899. *Sorex shastensis* MERRIAM, North Amer. Fauna, No. 16, p. 87. October 28, 1899.

TYPE LOCALITY.—Wagon Camp, Mount Shasta, Siskiyou County, California. Altitude, 5,700 feet.

†*Sorex tenellus tenellus Merriam.

1895. *Sorex tenellus* MERRIAM, North Amer. Fauna, No. 10, p. 81. December 31, 1895.

TYPE LOCALITY.—Summit of Alabama Hills, near Lone Pine, Owens Valley, Inyo County, California.

RANGE.—Southeastern California.

†*Sorex tenellus lyelli Merriam.

1902. *Sorex tenellus lyelli* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 75. March 22, 1902.

TYPE LOCALITY.—Mount Lyell, Tuolumne County, California.

†*Sorex tenellus myops Merriam.

1902. *Sorex tenellus myops* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 76. March 22, 1902.

TYPE LOCALITY.—White Mountains, California.

†*Sorex tenellus nanus Merriam.

1895. *Sorex tenellus nanus* MERRIAM, North Amer. Fauna No. 10, p. 81. December 31, 1895.

TYPE LOCALITY.—Estes Park, Larimer County. Colorado.

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†*Sorex macrodon Merriam.

1895. *Sorex macrodon* MERRIAM, North Amer. Fauna, No. 10, p. 82. December 31, 1895.

TYPE LOCALITY.—Orizaba, State of Vera Cruz, Mexico. Altitude, 4,200 feet.

RANGE.—Southern Mexico.

*Sorex veræpacis Alston.

1877. *Sorex veræ-pacis* ALSTON, Proc. Zool. Soc. London, p. 445.

1885. *Sorex veræ-pacis* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 606. 1885.

TYPE LOCALITY.—Coban, Guatemala.

†*Sorex saussurei saussurei Merriam.

1892. *Sorex saussurei* MERRIAM, Proc. Biol. Soc. Washington, vol. 7, p. 173. September 29, 1892.

TYPE LOCALITY.—North slope of Sierra Nevada of Colima, State of Jalisco, Mexico. Altitude, 8,000 feet.

RANGE.—Higher mountains of southern Mexico.

†*Sorex saussurei mutabilis Merriam.

1895. *Sorex saussurei caudatus* MERRIAM, North American Fauna, No. 10, p. 84. December 31, 1895. Not of Hodgson, 1849.

1898. *Sorex saussurei mutabilis* MERRIAM, Science, n. s., vol. 8, p. 782. December 2, 1898. (Substitute for *caudatus* Merriam.)

TYPE LOCALITY.—Reyes, State of Oaxaca, Mexico. Altitude, 10,200 feet.

RANGE.—Southern Mexico.

†*Sorex sclateri Merriam.

1897. *Sorex sclateri* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 228. July 15, 1897.

TYPE LOCALITY.—Tumbala, State of Chiapas, Mexico. Altitude, 5,000 feet.

†*Sorex godmani Merriam.

1897. *Sorex godmani* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 229. July 15, 1897.

TYPE LOCALITY.—Volcano Santa Maria, Quezaltenango, Guatemala. Altitude, 9,000 feet.

†*Sorex stizodon Merriam.

1895. *Sorex stizodon* MERRIAM, North Amer. Fauna, No. 10, p. 98. December 31, 1895.

TYPE LOCALITY.—San Cristobal, State of Chiapas, Mexico.

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***Sorex longirostris** Bachman.

1837. *Sorex longirostris* BACHMAN, Journ. Acad. Nat. Sci. Phila., vol. 7, pt. 2, p. 370.

1842. *Amphisorex lesueurii* DUVERNOY, Mag. de Zool., ser. 2, mamm., p. 33. November, 1842. (Wabash Valley, Indiana.)

1895. *Sorex longirostris* MILLER, North Amer. Fauna, No. 10, p. 52. December 31, 1895.

TYPE LOCALITY.—Swamps of the Santee River, South Carolina,

RANGE.—Austroriparian fauna of North Carolina, South Carolina, and Georgia; west to southern Illinois; north to the District of Columbia.

†*Sorex fisheri Merriam.

1895. *Sorex fisheri* MERRIAM, North Amer. Fauna, No. 10, p. 86. December 31, 1895.

TYPE LOCALITY.—Lake Drummond, Dismal Swamp. Norfolk County, Virginia.

†*Sorex pacificus Coues.

1877. *Sorex pacificus* COUES, Bull. U. S. Geol. and Geogr. Surv. Terr., vol. 3, p. 650. May 15, 1877.

1885. *Sorex pacificus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 606. 1885.

TYPE LOCALITY.—Fort Umpqua, mouth of Umpqua River, Douglas County, Oregon.

RANGE.—A narrow belt along the Pacific coast from Point Reyes, California, to Yaquina Bay, Oregon.

†*Sorex pribilofensis Merriam.

1895. *Sorex pribilofensis* MERRIAM, North Amer. Fauna, No. 10, p. 87. December 31, 1895.

TYPE LOCALITY.—St. Paul Island, Pribilof Islands, Bering Sea.

†*Sorex merriami Dobson.

1890. *Sorex merriami* DOBSON, Monogr. Insectivora, pt. 3, fasc. I, pl. 23, fig. 6. May, 1890.

TYPE LOCALITY.—Little Bighorn River, about a mile and a half above Fort Custer, Crow Indian Reservation, Montana.

†*Sorex leucogenys Osgood.

1909. *Sorex leucogenys* OSGOOD, Proc. Biol. Soc. Washington, vol. 22, p. 52. April 17, 1909.

TYPE LOCALITY.—Mouth of the canyon of Beaver River. about 3 miles from Beaver, Beaver County, Utah.

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Genus NEOSOREX Baird.[1]

1857. *Neosorex* BAIRD, Mamm. N. Amer., p. 11. Type, *Neosorex navigator* BAIRD.

Subgenus NEOSOREX Baird.

***Neosorex palustris** (Richardson.)

1828. *Sorex palustris* RICHARDSON, Zool. journ., vol. 3, p. 517.

1885. *Neosorex palustris* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 606. 1885.

TYPE LOCALITY.—Marshy places from Hudson Bay to the Rocky Mountains.

RANGE.—Parts of the Boreal zone from Minnesota to the east base of the Rocky Mountains.

†*Neosorex navigator navigator (Baird).

1857. *Neosorex navigator* BAIRD, Mamm. N. Amer., p. 11.

1885. *Neosorex navigator* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 606. 1885.

TYPE LOCALITY.—Unknown; probably northern Idaho.

RANGE.—The Rocky Mountains and outlying ranges from British Columbia to southern Colorado, and the Sierra Nevada of California south to the Sequoia National Park.

†*Neosorex navigator alaskanus (Merriam).

1900. *Sorex navigator alaskanus* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 18. March 14, 1900.

TYPE LOCALITY.—Point Gustavus, on east side of entrance to Glacier Bay, Alaska.

†*Neosorex albibarbis Cope.

1862. *Neosorex albibarbis* COPE, Proc. Acad. Nat. Sci. Philadelphia, p. 188.

1894. *Sorex albibarbis* MILLER, Proc. Boston Soc. Nat. Hist., vol. 26, p. 181. March 24, 1894.

TYPE LOCALITY.—Profile Lake, Franconia Mountains, Grafton County, New Hampshire.

RANGE.—Boreal parts of eastern North America from mountains of Pennsylvania and New York northward to Labrador.

Neosorex hydrodromus (Dobson).

1889. *Sorex hydrodromus* DOBSON, Ann. and Mag. Nat. Hist., ser. 6, vol. 4, p. 373. November, 1889.

TYPE LOCALITY.—Unalaska Island, Alaska.

Subgenus ATOPHYRAX Merriam.

1884. *Atophyrax* MERRIAM, Trans. Linn. Soc. New York, vol. 2, p. 217. August, 1884. Type, *Atophyrax bendirii* MERRIAM.

[1] Revised by Merriam, North Amer. Fauna, No. 10, pp. 90-98, December 31, 1895.

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†*Neosorex bendirii bendirii (Merriam).

1884. *Atophyrax bendirii* MERRIAM, Trans. Linn. Soc. New York, vol. 2, p. 217. August, 1884.

1885. *Atophyrax bendirei* TRUE, Proc. U. S. Nat. Mus., vol. 7, (1884), p. 606. 1885.

TYPE LOCALITY.—Near Williamson River, 18 miles southeast of Fort Klamath, Klamath County, Oregon.

RANGE.—Klamath Basin, Oregon, and thence northward along east side of Cascade Range to Puget Sound; westward to coast of California, and southward to Sonoma County.

†*Neosorex bendirii palmeri (Merriam).

1895. *Sorex bendirii palmeri* MERRIAM, North Amer. Fauna, No. 10, p. 97. December 31, 1895.

TYPE LOCALITY.—Astoria, Clatsop County, Oregon.

RANGE.—Western Oregon.

†*Neosorex bendirii albiventer (Merriam).

1895. *Sorex bendirii albiventer* MERRIAM, North Amer. Fauna, No. 10, p. 97. December 31, 1895.

TYPE LOCALITY.—Lake Cushman, Olympic Mountains, Mason County, Washington.

RANGE.—Olympic Mountains.

Genus MICROSOREX Coues.

1877. *Microcorex* COUES, Bull. U. S. Geol. and Geogr. Surv. Terr., vol. 3, p. 646. May 15, 1897. Type, *Sorex hoyi* BAIRD.

†*Microsorex alnorum (Preble).

1902. *Sorex* (*Microsorex*) *alnorum* PREBLE, North Amer. Fauna, No. 22, p. 72. October 31, 1902.

TYPE LOCALITY.—Robinson Portage, Keewatin, Canada

†*Microsorex eximius (Osgood.)

1901. *Sorex* (*Microsorex*) *eximius* OSGOOD, North Amer. Fauna, No. 21, p. 71. September 26, 1901.

TYPE LOCALITY.—Tyonek, Cook Inlet, Alaska.

†*Microsorex hoyi (Baird).

1857. *Sorex hoyi* BAIRD, Mamm. N. Amer., p. 32.

1885. *Sorex hoyi* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 606. 1885.

1910. *Microsorex hoyi* PREBLE, Proc. Biol. Soc. Washington, vol. 23, p. 102. June 24, 1910.

TYPE LOCALITY.—Racine, Racine County, Wisconsin.

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†*Microsorex winnemana Preble.

1910. *Microsorex winnemana* PREBLE, Proc. Biol. Soc. Washington, vol. 23, p. 101. June 24, 1910.

TYPE LOCALITY.—Bank of Potomac River, near Stubblefield Falls, Fairfax County, Virginia.

Genus BLARINA Gray.[1]

1838. *Blarina* GRAY, Proc. Zool. Soc. London, 1837, p. 124. Type, *Sorex talpoides* GAPPER.

*Blarina brevicauda brevicauda (Say).

1823. *Sorex brevicaudus* SAY, Long's Exped. Rocky Mts., vol. 1, p. 164.

1857. *Blarina brevicauda* BAIRD, Mamm. N. Amer., p. 42.

1885. *Blarina brevicauda* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 606. 1885.

TYPE LOCALITY.—West bank of Missouri River, near Blair, formerly Engineer Cantonment, Washington County, Nebraska.

RANGE.—Upper Austral and Transition zones, from western Nebraska and Manitoba eastward to the Atlantic Coast, penetrating a short distance into lower edge of boreal.[2]

Blarina brevicauda aloga Bangs.

1902. *Blarina brevicauda aloga* BANGS, Proc. New England Zool. Club, vol. 3, p. 76, March 31, 1902.

TYPE LOCALITY.—West Tisbury, Marthas Vineyard, Massachusetts.

Blarina brevicauda compacta Bangs.

1902. *Blarina brevicauda compacta* BANGS, Proc. New England Zool. Club, vol. 3, p. 77, March 31, 1902.

TYPE LOCALITY.—Nantucket Island, Massachusetts.

*Blarina brevicauda carolinensis (Bachman).

1837. *Sorex carolinensis* BACHMAN, Journ. Acad. Nat. Sci. Philadelphia, vol. 7, pt. 2, p. 366.

1895. *Blarina brevicauda carolinensis* MERRIAM, North Amer. Fauna, No. 10, p. 13. December 31, 1895.

TYPE LOCALITY.—Eastern South Carolina.

RANGE.—Austroriparian fauna from the mouth of Chesapeake Bay to Arkansas.

[1] Revised by Merriam, North Amer. Fauna, No. 10, pp. 9–16, December 31, 1895.

[2] The animal occurring east of the Mississippi is now recognised as distinct under the name *B. brevicauda talpoides*.

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†*Blarina brevicauda peninsulæ (Merriam).

1895. *Blarina carolinensis peninsulæ* MERRIAM, North Amer. Fauna, No. 10, p. 14. December 31, 1895.

1897. [*Blarina brevicauda*] *peninsulæ* TROUESSART, Catal. Mamm. viv. foss., pt. 1, p. 188.

TYPE LOCALITY.—Miami River, Dade County, Florida.

RANGE.—Peninsula of Florida, south of latitude 28°.

*Blarina brevicauda hulophaga Elliot.

1899. *Blarina brevicauda hulophaga* ELLIOT, Field Columb. Mus., publ. 38, zool. ser., vol. 1, p. 287. May 24, 1899.

TYPE LOCALITY.—Dougherty, Murray County, Oklahoma.

*Blarina brevicauda talpoides (Gapper).

1830. *Sorex talpoides* GAPPER, Zool. Journ., vol. 5, p. 202.

1904. *Blarina brevicauda talpoides* G. M. ALLEN, Occ. Papers Boston Soc. Nat. Hist., vol. 7, No. 3, p. 30. June, 1904.

TYPE LOCALITY.—Between York and Lake Simcoe, Ontario.

†*Blarina telmalestes Merriam.

1895. *Blarina telmalestes* MERRIAM, North Amer. Fauna, No. 10, p. 15. December 31, 1895.

TYPE LOCALITY.—Lake Drummond, Dismal Swamp, Norfolk County, Virginia.

RANGE.—Dismal Swamp, Virginia.

Blarina costaricensis Allen.

1891. *Blarina costaricensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 205. April 17, 1891.

TYPE LOCALITY.—La Carpintera, Costa Rica, or upper Mississippi Valley (see Merriam, North Amer. Fauna, No. 10, p. 12, December 31, 1895).

Regarded by Merriam (North Amer. Fauna, No. 10, p. 10, December 31, 1895) as identical with *B. brevicauda*, but this determination is questioned by Allen (Bull. Amer. Mus. Nat. Hist., vol. 9, p. 34, March 11, 1897).

Genus CRYPTOTIS Pomel.[1]

1848. *Cryptotis* POMEL, Archiv. Sci. Phys. et Nat. Genève, vol. 9, p. 249. November, 1848. Type, *Sorex cinereus* BACHMAN = *Sorex parvus* SAY.

*Cryptotis parva (Say).

1823. *Sorex parvus* SAY, Long's Exped. Rocky Mts., vol. 1, p. 163.

1885. *Blarina cinerea* and *Sorex parvus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 606. 1885.

[1] Revised by Merriam, North Amer. Fauna, No. 10, pp. 10–31, December 31, 1895.

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Cryptotis parva—Continued.

TYPE LOCALITY.—West bank of Missouri River, near Blair, formerly Engineer Cantonment, Washington County, Nebraska.

RANGE.—Austral region of the eastern United States (including both the Austroriparian and Carolinian faunas) from Texas and eastern Nebraska eastward to the Atlantic coast from Staten Island southward.

†***Cryptotis floridana** (Merriam).

1895. *Blarina floridana* MERRIAM, North Amer. Fauna, No. 10, p. 19. December 31, 1895.

TYPE LOCALITY.—Chester Shoal, 11 miles north of Cape Canaveral, Brevard County, Florida.

RANGE.—Penisular Florida, south of latitude 29°. Exact limits of range unknown.

†***Cryptotis berlandieri** (Baird).

1857. *Blarina berlandieri* BAIRD, Mamm. N. Amer., p. 53.

1895. *Blarina berlandieri* MERRIAM, North Amer. Fauna, No. 10, p. 20. December 31, 1895.

TYPE LOCALITY.—Matamoras, State of Tamaulipas, Mexico.

RANGE.—Lower Rio Grande Valley, on both sides of the river, and probably the coast region of southern Texas also. Limits of range unknown.

***Cryptotis pergracilis pergracilis** (Elliot).

1903. *Blarina pergracilis* ELLIOT, Field Columb. Mus., publ. 71, zool. ser., vol. 3, p. 149. February, 1903.

1911. *Cryptotis pergracilis* MILLER, Proc. Biol. Soc. Washington, vol. 24, p. 223. October 31, 1911.

TYPE LOCALITY.—Ocotlan, Jalisco, Mexico.

†***Cryptotis pergracilis macer** Miller.

1911. *Cryptotis pergracilis macer* MILLER, Proc. Biol. Soc. Washington, vol. 24, p. 223. October 31, 1911.

TYPE LOCALITY.—Near Guanajuato City, Guanajuato, Mexico.

***Cryptotis tropicalis** (Merriam).

1895. *Blarina tropicalis* MERRIAM, North Amer. Fauna, No. 10, p. 21. December 31, 1895.

1911. *C[ryptotis] tropicalis* MILLER, Proc. Biol. Soc. Washington, vol. 24, p. 221. October 31, 1911.

TYPE LOCALITY.—Coban, Guatemala. Altitude, about 4,400 feet.

RANGE.—Tropical fauna of western Guatemala and southern Mexico in States of (Chiapas?) Oaxaca and Vera Cruz.

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***Cryptotis orophila** (Allen).

1895. *Blarina* (*Soriciscus*) *orophila* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 340. November 8, 1895.

1911. *C*[*ryptotis*] *orophila* MILLER, Proc. Biol. Soc. Washington, vol. 24, p. 221. October 31, 1911.

TYPE LOCALITY.—Volcano of Irazú, Costa Rica.

†*Cryptotis soricina (Merriam).

1895. *Blarina soricina* MERRIAM, North Amer. Fauna, No. 10, p. 22. December 31, 1895.

1911. *C*[*ryptotis*] *soricina* MILLER, Proc. Biol. Soc. Washington, vol. 24, p. 221. October 31, 1911.

TYPE LOCALITY.—Tlalpam, 10 miles south of the City of Mexico, Mexico. Altitude, 7,600 feet.

Cryptotis olivaceus (Allen).

1908. *Blarina olivaceus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 24, p. 669. October 13, 1908.

TYPE LOCALITY.—San Rafael del Norte, Nicaragua. Altitude, about 5,000 feet.

†*Cryptotis obscura (Merriam).

1895. *Blarina obscura* MERRIAM, North Amer. Fauna, No. 10, p. 23. December 31, 1895.

TYPE LOCALITY.—Tulancingo, State of Hidalgo, Mexico. Altitude, 8,500 feet.

†*Cryptotis mayensis (Merriam).

1901. *Blarina mayensis* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 559. November 29, 1901.

TYPE LOCALITY.—Maya ruin at Chichenitza, Yucatan.

†*Cryptotis mexicana mexicana (Coues).

1877. *Blarina* (*Soriciscus*) *mexicana* COUES, Bull. U. S. Geol. and Geogr. Surv. Terr., vol. 3, p. 652. May 15, 1877.

1885. *Blarina mexicana* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 606. 1885.

1911. *Cryptotis mexicana* MILLER, Proc. Biol. Soc. Washington, vol. 24, p. 221. October 31, 1911.

TYPE LOCALITY.—Jalapa, State of Vera Cruz, Mexico.

RANGE.—Tropical fauna of southeastern Mexico in States of Vera Cruz and Oaxaca.

†*Cryptotis mexicana peregrina (Merriam).

1895. *Blarina mexicana peregrina* MERRIAM, North Amer. Fauna, No. 10, p. 24. December 31, 1895.

1911. *C*[*ryptotis*] *mexicana peregrina* MILLER, Proc. Biol. Soc. Washington, vol. 24, p. 222. October 31, 1911.

TYPE LOCALITY.—Mountains 15 miles west of Oaxaca, State of Oaxaca, Mexico. Altitude, 9,500 feet.

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†*Cryptotis mexicana goldmani (Merriam).

1895. *Blarina mexicana goldmani* MERRIAM, North Amer. Fauna, No. 10, p. 25. December 31, 1895.

TYPE LOCALITY.—Mountains near Chilpancingo, State of Guerrero, Mexico. Altitude, 10,000 feet.

†*Cryptotis mexicana machetes (Merriam).

1895. *Blarina mexicana machetes* MERRIAM, North Amer. Fauna, No. 10, p. 26. December 31, 1895.

TYPE LOCALITY.—Mountains near Ozolotepec, State of Oaxaca, Mexico. Altitude, 10,000 feet.

†*Cryptotis nelsoni (Merriam).

1895. *Blarina nelsoni* MERRIAM, North Amer. Fauna, No. 10, p. 26. December 31, 1895.

TYPE LOCALITY.—Volcano of Tuxtla, State of Vera Cruz, Mexico. Altitude, 4,800 feet.

†*Cryptotis frontalis Miller.

1911. *Cryptotis frontalis* MILLER, Proc. Biol. Soc. Washington, vol. 24, p. 222. October 31, 1911.

TYPE LOCALITY.—Near Tehuantepec City, Oaxaca, Mexico.

†*Cryptotis gracilis Miller.

1911. *Cryptotis gracilis* MILLER, Proc. Biol. Soc. Washington, vol. 24, p. 221. October 31, 1911.

TYPE LOCALITY.—Head of Lari River, near base of Pico Blanco, Talamanca, Costa Rica. Altitude, about 6,000 feet.

*Cryptotis nigrescens (Allen).

1895. *Blarina (Soriciscus) nigrescens* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 339. November 8, 1895.

1911. *C[ryptotis] nigrescens* MILLER, Proc. Biol. Soc. Washington, vol. 24, p. 222. October 31, 1911.

TYPE LOCALITY.—San Isidro (San José), Costa Rica.

†*Cryptotis alticola (Merriam).

1895. *Blarina alticola* MERRIAM, North Amer. Fauna, No. 10, p. 27. December 31, 1895.

TYPE LOCALITY.—Mount Popocatepetl, State of Mexico, Mexico. Altitude, 11,500 feet.

RANGE.—Higher slopes of Mount Popocatepetl and the mountains near Salazar and Ajusco, south of the City of Mexico, from 9,500 to 12,000 feet altitude.

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†*Cryptotis fossor (Merriam).

1895. *Blarina fossor* MERRIAM, North Amer. Fauna, No. 10, p. 28. December 31, 1895.

TYPE LOCALITY.—Mount Zempoaltepec, State of Oaxaca, Mexico. Altitude, 10,500 feet.

RANGE.—Higher slopes of Mount Zempoaltepec, from 8,200 to 10,500 feet altitude.

†*Cryptotis magna (Merriam).

1895. *Blarina magna* MERRIAM, North Amer. Fauna, No. 10, p. 28. December 31, 1895.

TYPE LOCALITY.—Totontepec, State of Oaxaca, Mexico. Altitude, 6,800 feet.

RANGE.—Mountains about Totontepec and Mount Zempoaltepec, Oaxaca, from 6,800 to 8,000 feet altitude.

Genus NOTIOSOREX Coues.[1]

1877. *Notiosorex* COUES, Bull. U. S. Geol. and Geogr. Surv. Terr., vol. 3, p. 646. May 15, 1877. Type, *Sorex* (*Notiosorex*) *crawfordi* COUES.

†*Notiosorex crawfordi crawfordi (Coues).

1877. *Sorex* (*Notiosorex*) *crawfordi* COUES, Bull. U. S. Geol. and Geogr. Surv. Terr., vol. 3, p. 651. May 15, 1877.

1885. *Sorex crawfordi* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 606. 1885.

1895. *Notiosorex crawfordi* MERRIAM, North Amer. Fauna, No. 10, p. 32. December 31, 1895.

TYPE LOCALITY.—Near old Fort Bliss, about 2 miles above El Paso, El Paso County, Texas.

RANGE.—Parts of Lower Sonoran zone from eastern Texas to southern California, and thence southward to the cape region of the peninsula of Lower California.

†*Notiosorex crawfordi evotis (Coues).

1877. *Sorex* (*Notiosorex*) *evotis* COUES, Bull. U. S. Geol. and Geogr. Surv. Terr., vol. 3, p. 652. May 15, 1877.

1895. *Notiosorex crawfordi evotis* MERRIAM, North Amer. Fauna, No. 10, p. 34. December 31, 1895.

TYPE LOCALITY.—Mazatlan, State of Sinaloa, Mexico.

†*Notiosorex gigas Merriam.

1897. *Notiosorex gigas* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 227. July 15, 1897.

TYPE LOCALITY.—Mountains at Milpillas, near San Sebastian, State of Jalisco, Mexico.

[1] Revised by Merriam, North Amer. Fauna, No. 10, pp. 31-34, December 31, 1895.

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Order CHIROPTERA.[1]

Suborder MICROCHIROPTERA.

Family EMBALLONURIDÆ.

Subfamily EMBALLURINÆ

Genus RHYNCHISCUS Miller.

1907. *Rhynchiscus* MILLER, Proc. Biol. Soc. Washington, vol. 20, p. 65. June 12, 1907. (Substitute for *Rhynchonycteris* PETERS, 1867, not *Rhinchonycteris* TSCHUDI, 1844–46.) Type, *Vespertilio naso* WIED.

***Rhynchiscus naso** (Wied).

1821. *Vespertilio naso* WIED, Schinz's Thierreich, vol. 1, p. 179.
1885. *Rhynchonycteris naso* TRUE, Proc. U. S. Nat. Mus., vol. 7, (1884), p. 603. 1885.
1907. *Rhynchiscus naso* MILLER, Families and Genera of Bats, p. 89. June 29, 1907.

TYPE LOCALITY.—East coast of Brazil. (Ranges into Mexico.)

Genus SACCOPTERYX Illiger.

1811. *Saccopteryx* ILLIGER, Prodr. Syst. Mamm. et Avium, p. 121. Type, *Vespertilio lepturus* SCHREBER.

***Saccopteryx bilineata centralis** Thomas.

1885. *Saccopteryx bilineata* TRUE, Proc. U. S. Nat. Mus., vol. 7, (1884), p. 603. 1885.
1904. *Saccopteryx bilineata centralis* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 13, p. 251. April, 1904.

TYPE LOCALITY.—Teapa, Tabasco, Mexico.

Genus PEROPTERYX Peters.

1867. *Peropteryx* PETERS, Monatsber. k. preuss. Akad. Wissench. Berlin, p. 472. Type, *Vespertilio caninus* WIED.

***Peropteryx canina canina** (Wied).

1821. *Vespertilio caninus* WIED, Schinz's Thierreich, vol. 1, p 179.
1867. *Peropteryx canina* PETERS, Monatsber. k. preuss. Akad Wissensch. Berlin, p. 472.
1885. *Saccopteryx canina* TRUE, Proc. U. S. Nat. Mus., vol. 7, (1884), p. 603. 1885.
1899. *Peropteryx canina* MILLER, Bull. Amer. Mus. Nat. Hist., vol. 12, p. 178. October 20, 1899.

TYPE LOCALITY.—East coast of Brazil. (Ranges into Mexico.)

[1] Families and genera revised by Miller, Bull. U. S. Nat. Mus., No. 57, June 29, 1907.

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***Peropteryx canina phæa** G. M. Allen.

1911. *Peropteryx canina phæa* G. M. ALLEN, Bull. Mus. Comp. Zool., vol. 54, p. 222. July, 1911.

TYPE LOCALITY.—Point Saline, Grenada, Lesser Antilles.

Genus BALANTIOPTERYX Peters.

1867. *Balantiopteryx* PETERS, Monatsber. k. preuss. akad. Wissensch. Berlin, p. 476. Type, *Balantiopteryx plicata* PETERS.

Balantiopteryx io Thomas.

1897. *Saccopteryx infusca* THOMAS, Ann. and Mag. Nat. Hist., ser. 6, vol. 20, p. 546. December, 1897 (part).

1904. *Balantiopteryx io* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 13, p. 252. April, 1904.

TYPE LOCALITY.—Rio Dolores, near Coban, Guatemala.

***Balantiopteryx plicata** Peters.

1867. *Balantiopteryx plicata* PETERS, Monatsber. k. preuss. Akad. Wissensch. Berlin, p. 476.

1885. *Saccopteryx plicata* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 603. 1885.

TYPE LOCALITY.—Punta Arenas, Costa Rica.

Subfamily DICLIDURINÆ.

Genus DICLIDURUS Wied.

1819. *Diclidurus* WIED, Isis, p. 1629. Type, *Diclidurus albus* WIED.

***Diclidurus virgo** Thomas.

1885. *Diclidurus albus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 603. 1885.

1903. *Diclidurus virgo* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 11, p. 377. April, 1903.

TYPE LOCALITY.—Escazu, Costa Rica.

Family NOCTILIONIDÆ.

Genus NOCTILIO Linnæus.

1766. *Noctilio* LINNÆUS, Syst. Nat., ed. 12, vol. 1, p. 88. Type, *Noctilio americanus* LINNÆUS = *Vespertilio leporinus* LINNÆUS.

***Noctilio leporinus mastivus** (Dahl).

1797. *Vespertilio mastivus* DAHL, Skrivter af Naturhist.-Selskabet, Kjöbenhavn, vol. 4, p. 132.

1885. *Noctilio leporinus mastivus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 603. 1885.

TYPE LOCALITY.—Island of St. Croix, West Indies. (Ranges north into southern Mexico.)

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Genus DIRIAS Miller.

1904. *Dirias* MILLER, Proc. Biol. Soc. Washington, vol. 19, p. 84. June 4, 1904. Type, *Noctilio albiventer* SPIX.

Regarded by Osgood (Field Mus. Nat. Hist., publ. 149, zool. ser., vol. 10, pp. 31–32, October 20, 1910) as identical with *Noctilio*.

***Dirias minor** (Osgood).

1910. *Noctilio minor* OSGOOD, Field Mus. Nat. Hist., publ. 149, zool. ser., vol. 10, p. 30. October 20, 1910.

1912. *Dirias minor* NELSON, Proc. Biol. Soc. Washington, vol. 25, p. 93. May 4, 1912.

TYPE LOCALITY.—Encontrador, Zulia, Venezuela. (Range extends to Panama.)

Family PHYLLOSTOMIDÆ.

Subfamily CHILONYCTERINÆ.

Genus CHILONYCTERIS Gray.[1]

1839. *Chilonycteris* GRAY, Ann. Nat. Hist., vol. 4, p. 4. September, 1839. Type, *Chilonycteris macleayii* GRAY.

***Chilonycteris macleayii macleayii** Gray.

1839. *Chilonycteris macleayii* GRAY, Ann. Nat. Hist., vol. 4, p. 5. September, 1839.

1885. *Chilonycteris macleayi* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 603. 1885.

TYPE LOCALITY.—Cuba.

RANGE.—Cuba.

Chilonycteris macleayii fuliginosa (Gray).

1843. *Chilonycteris fuliginosa* GRAY, Proc. Zool. Soc. London, p. 20.

1904. *Chilonycteris macleayii fuliginosa* REHN, Proc. Acad. Nat. Sci. Philadelphia, p. 188. March 29, 1904.

TYPE LOCALITY.—Port au Prince, Haiti.

RANGE.—Haiti and San Domingo.

***Chilonycteris macleayii inflata** Rehn.

1904. *Chilonycteris macleayii inflata* REHN, Proc. Acad. Nat. Sci. Philadelphia, p. 190. March 29, 1904.

TYPE LOCALITY.—Cueva de Fari, near Pueblo Viejo, Porto Rico.

RANGE.—Porto Rico.

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[1] Revised by Rehn, Proc. Acad. Nat. Sci. Philadelphia, 1904, pp. 181–207, March 29, 1904.

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***Chilonycteris macleayi grisea** (Gosse).

1851. *Chilonycteris grisea* GOSSE, A Naturalist's Sojourn in Jamaica, p. 326.

1904. *Chilonycteris macleayii grisea* REHN, Proc. Acad. Nat. Sci. Philadelphia, p. 191. March 29, 1904.

TYPE LOCALITY.—Phoenix Park, St. Ann Parish, Jamaica.

RANGE.—Jamaica.

Chilonycteris personata Wagner.

1843. *Chilonycteris personata* WAGNER, Wiegmann's Arch. f. Naturg., IX, vol. 1, p. 367.

1885. *Chilonycteris personata* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 604. 1885.

TYPE LOCALITY.—Matto Grosso, Brazil.

RANGE.—From Matto Grosso, Brazil, to Guatemala.

***Chilonycteris parnellii parnellii** (Gray).

1843. *Phyllodia parnellii* GRAY, Proc. Zool. Soc. London, p. 50.

1878. *Chilonycteris parnellii* DOBSON, Catal. Chiropt. Brit. Mus., p. 452.

1885. *Chilonycteris parnelli* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884) p. 604. 1885.

TYPE LOCALITY.—Jamaica.

RANGE.—Jamaica.

***Chilonycteris parnellii boothi** (Gundlach).

1861. *Chilonycteris boothi* GUNDLACH, Monatsber. k. preuss. Akad. Wissensch., Berlin, p. 154.

1904. *Chilonycteris parnellii boothi* REHN, Proc. Acad. Nat. Sci. Philadelphia, p. 197. March 29, 1904.

TYPE LOCALITY.—Fundador, Matanzas, Cuba.

RANGE.—Cuba.

†*Chilonycteris parnellii portoricensis (Miller).

1902. *Chilonycteris portoricensis* MILLER, Proc. Acad. Nat. Sci. Philadelphia, p. 400. September 12, 1902.

1904. *Chilonycteris parnellii portoricensis* REHN, Proc. Acad. Nat. Sci. Philadelphia, p. 199. March 29, 1904.

TYPE LOCALITY.—Cueva de Fari, near Pueblo Viejo, Porto Rico.

RANGE.—Porto Rico.

***Chilonycteris rubiginosa rubiginosa** Wagner.

1843. *Chilonycteris rubiginosa* WAGNER, Wiegmann's Arch. f. Naturg., IX, vol. 1, p. 367.

1885. *Chilonycteris rubiginosa* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884) p. 604. 1885.

TYPE LOCALITY.—Caicara, Brazil.

RANGE.—Upper Amazon region of Brazil, north to Guatemala.

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†*Chilonycteris rubiginosa mexicana (Miller).

1902. *Chilonycteris mexicana* MILLER, Proc. Acad. Nat. Sci. Philadelphia, p. 401. September 12, 1902.

1904. *Chilonycteris rubiginosa mexicana* REHN, Proc. Acad. Nat. Sci. Philadelphia, p. 203. March 29, 1904.

TYPE LOCALITY.—San Blas, Tepic, Mexico.

RANGE.—Southern Mexico.

*Chilonycteris psilotis Dobson.

1878. *Chilonycteris psilotis* DOBSON, Catal. Chiropt. Brit. Mus., p. 451.

TYPE LOCALITY.—Unknown. (Recorded from Isthmus of Tehuantepec, Mexico, by Miller, Proc. Biol. Soc. Washington, vol. 15, p. 249, December 16, 1902.)

Regarded by Allen (Bull. Amer. Mus. Nat. Hist., vol. 30, pp. 264–265, December 2, 1911) as identical with *C. personata*.

Genus PTERONOTUS Gray.[1]

1838. *Pteronotus* GRAY, Mag. Zool. and Bot., vol. 2, p. 500. December, 1838. Type, *Pteronotus davyi* GRAY.

1901. *Dermonotus* GILL, Proc. Biol. Soc. Washington, vol, 14, p. 117. September 25, 1901. Same type.

*Pteronotus davyi davyi Gray.

1838. *Pteronotus davyi* GRAY, Mag. Zool. and Bot., vol. 2, p. 500. December, 1838.

1885. *Chilonycteris davyi* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 604. 1885.

1890. *Pteronotus davyi* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 178. December 10, 1890.

TYPE LOCALITY.—Island of Trinidad.

RANGE.—From Brazil northward to the island of Dominica, Lesser Antilles.

*Pteronotus davyi fulvus (Thomas).

1892. *Chilonycteris davyi fulvus* THOMAS, Ann. and Mag. Nat. Hist., ser. 6, vol. 10, p. 410. November, 1892.

TYPE LOCALITY.—Las Peñas, State of Jalisco, Mexico.

RANGE.—Southern Mexico.

Genus MORMOOPS Leach.[2]

1822. *Mormoops* LEACH, Trans. Linn. Soc., vol. 13, p. 76. Type, *Mormoops blainvillii* LEACH.

[1] Revised (under the name *Dermonotus*) by Rehn, Proc. Acad. Nat. Sci. Philadelphia, 1904, pp. 250–256, April 7, 1904.

[2] Revised by Rehn, Proc. Acad. Nat. Sci. Philadelphia, 1902, pp. 160–172, June 11, 1902.

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***Mormoops blainvillii blainvillii** Leach.

1822. *Mormoops blainvillii* LEACH, Trans. Linn. Soc., vol. 13, p. 77.

1885. *Mormops blainvillei* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 604. 1885.

TYPE LOCALITY.—Jamaica.

RANGE.—Jamaica.

***Mormoops blainvillii cinnamomea** (Gundlach).

1840. *L* [*obostoma*] *cinnamomea* GUNDLACH, Wiegmann's Arch. f. Naturg., VI, vol. 1, p. 357.

1902. *Mormoops blainvillii cinnamomea* REHN, Proc. Acad. Nat. Sci. Philadelphia, p. 165. June 11, 1902.

TYPE LOCALITY.—Casetal San Antonio el Fundador, Cuba.

RANGE.—Cuba, Santo Domingo, and Mona Island, between Santo Domingo and Porto Rico.

***Mormoops megalophylla megalophylla** Peters.

1864. *Mormops megalophylla* PETERS, Monatsber. k. preuss. Akad. Wissensch. Berlin, p. 381.

1885. *Mormops megalophylla* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 604. 1885.

TYPE LOCALITY.—Southern Mexico.

RANGE.—From southern Mexico and Yucatan south to Colombia, Ecuador, Venezuela, and Trinidad.

†*Mormoops megalophylla senicula Rehn.

1902. *Mormoops megalophylla senicula* REHN, Proc. Acad. Nat. Sci. Philadelphia, p. 169. June 11, 1902.

TYPE LOCALITY.—Fort Clark, Kinney County, Texas.

RANGE.—Southern Texas, northern and central Mexico.

Subfamily PHYLLOSTOMINÆ.

Genus MICRONYCTERIS Gray.[1]

1866. *Micronycteris* GRAY, Proc. Zool. Soc. London, p. 113. Type, *Phyllophora megalotis* GRAY.

†*Micronycteris megalotis mexicana Miller.

1885. *Schizostoma megalotis* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 604. 1885.

1898. *Micronycteris megalotis mexicanus* MILLER, Proc. Acad. Nat. Sci. Philadelphia, p. 329. July 12, 1898.

TYPE LOCALITY.—Plantinar, State of Jalisco, Mexico.

RANGE.—From Bogota, through Central America to Mexico.

[1] Revised by Andersen, Ann. and Mag. Nat. Hist., ser. 7, vol. 18, pp. 50-68, July, 1906.

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†*Micronycteris microtis Miller.

1898. *Micronycteris microtis* MILLER, Proc. Acad. Nat. Sci. Philadelphia, p. 328. July 12, 1898.

TYPE LOCALITY.—Greytown, Nicaragua.

Micronycteris hirsuta (Peters).

1869. *Schizostoma hirsutum* PETERS, Monatsber. k. preuss. Akad. Wissensch. Berlin, p. 396.

1885. *Schizostoma hirsutus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 604. 1885.

1898. *M[icronycteris] hirsuta* MILLER, Proc. Acad. Nat. Sci. Philadelphia, p. 330. July 12, 1898.

TYPE LOCALITY.—Unknown. The second specimen was taken at Pozo Azul, Costa Rica. (See Thomas, Ann. and Mag. Nat. Hist., ser. 7, vol. 2, p. 318, October, 1898.)

Genus GLYPHONYCTERIS Thomas.

1896. *Glyphonycteris* THOMAS, Ann. and Mag. Nat. Hist., ser. 6, vol. 18, p. 302. October, 1896. Type, *Glyphonycteris sylvestris* THOMAS.

Glyphonycteris sylvestris Thomas.

1896. *Glyphonycteris sylvestris* THOMAS, Ann. and Mag. Nat. Hist., ser. 6, vol. 18, p. 303. October, 1896.

TYPE LOCALITY.—Imravalles, Costa Rica.

Genus MACROTUS Gray.[1]

1843. *Macrotus* GRAY, Proc. Zool. Soc. London, p. 21. Type, *Macrotus waterhousii* GRAY.

1891. *Otopterus* LYDEKKER, in Flower and Lydekker, Mammals, living and extinct, p. 673. Same type.

*Macrotus waterhousii waterhousii (Gray).

1843. *Macrotus waterhousii* GRAY, Proc. Zool. Soc. London, p. 21.

1885. *Macrotus waterhousei* TRUE, U. S. Nat. Mus., vol. 7 (1884), p. 604. 1885 (Part).

TYPE LOCALITY.—Hayti.

RANGE.—Hayti and Santo Domingo.

†*Macrotus waterhousii jamaicensis Rehn.

1904. *Macrotus waterhousii jamaicensis* REHN, Proc. Acad. Nat. Sci. Philadelphia, p. 432. June 29, 1904.

TYPE LOCALITY.—Spanishtown, Jamaica.

RANGE.—Jamaica.

[1] Revised by Rehn, Proc. Acad. Nat. Sci. Philadelphia, pp. 427-446, June 29, 1904.

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†***Macrotus waterhousii compressus** Rehn.

1904. *Macrotus waterhousii compressus* REHN, Proc. Acad. Nat. Sci. Philadelphia, p. 434. June 29, 1904.

TYPE LOCALITY.—Eleuthera, Bahamas.

RANGE.—Bahama Islands.

***Macrotus waterhousii minor** (Gundlach).

1864. *Macrotus minor* GUNDLACH, Monatsber. k. preuss. Akad. Wissensch. Berlin, p. 382.

1904. *Macrotus waterhousii minor* REHN, Proc. Acad. Nat. Sci. Philadelphia, p. 435. June 29, 1904.

TYPE LOCALITY.—Western Cuba.

RANGE.—Cuba and the Isle of Pines.

***Macrotus mexicanus mexicanus** Saussure.

1860. *Macrotus mexicanus* SAUSSURE, Revue et Magasin de zoologie, ser. 2, vol. 12, p. 486. November, 1860.

1876. *Macrotus bocourtianus* DOBSON, Ann. and Mag. Nat. Hist., ser. 4, vol. 18, p. 436. November, 1876.

1885. *Macrotus bocourtianus* TRUE, Proc. U. S. Nat. Mus., vol. 7, (1884), p. 604. 1885.

1904. *Macrotus mexicanus* REHN, Proc. Acad. Nat. Sci. Philadelphia, p. 437. June 29, 1904.

TYPE LOCALITY.—Yautepec, near Cuautla, State of Morelos, Mexico.

RANGE.—From Colima, Michoacan, and Morelos, Mexico, south to Vera Paz, Guatemala.

***Macrotus mexicanus bulleri** (H. Allen).

1890. *Macrotus bulleri* H. ALLEN, Proc. Amer. Philos. Soc., vol. 28, p. 73. May 10, 1890.

1904. *Macrotus mexicanus bulleri* REHN, Proc. Acad. Nat. Sci. Philadelphia, p. 439. June 29, 1904.

TYPE LOCALITY.—Bolaños, State of Jalisco, Mexico.

RANGE.—From Guadalajara north to Durango and southern Chihuahua, also including the Tres Marias Islands.

***Macrotus californicus** Baird.

1858. *Macrotus californicus* BAIRD, Proc. Acad. Nat. Sci. Philadelphia, p. 116.

TYPE LOCALITY.—Fort Yuma, San Diego County, California.

RANGE.—Arid region of the southwestern United States. Lower California, and Sonora.

Macrotus pygmæus Rehn.

1904. *Macrotus pygmæus* REHN, Proc. Acad. Nat. Sci. Philadelphia, p. 444. June 29, 1904.

TYPE LOCALITY.—Izamal, Yucatan.

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Genus LONCHORHINA Tomes.

1863. *Lonchorhina* TOMES, Proc. Zool. Soc. London, p. 81. Type, *Lonchorhina aurita* TOMES.

***Lonchorhina aurita** Tomes.

1863. *Lonchorhina aurita* TOMES, Proc. Zool. Soc. London, p. 83.

1885. *Lonchorhina aurita* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 604. 1885.

TYPE LOCALITY.—West Indies.

RANGE.—Panama, Venezuela, Trinidad, and the Bahama Islands.

Genus MACROPHYLLUM Gray.

1838. *Macrophyllum* GRAY, Mag. Zool. and Bot., vol. 2, p. 489. February, 1838. Type, *Macrophyllum nieuwiedii* GRAY = *Phyllostoma macrophyllum* WIED.

1891. *Dolichophyllum*, LYDEKKE, in Flower and Lydekker, Mammals, living and extinct, p. 673. Same type.

***Macrophyllum macrophyllum** (Wied).

1825. *Phyllostoma macrophyllum* WIED, Beitr. zur Naturgesch. Brasilien, vol. 2, p. 188.

1912. *Macrophyllum macrophyllum* NELSON, Proc. Biol. Soc. Washington, vol. 25, p. 93. May 4, 1912.

TYPE LOCALITY.—Mucuré River, Minas Geraes, Brazil. (Ranges north to Panama.)

Genus MIMON Gray.

1847. *Mimon* GRAY, Proc. Zool. Soc. London, p. 14. Type, *Phyllostoma bennettii* GRAY.

***Mimon bennettii** (Gray).

1838. *Phyllostoma bennettii* GRAY, Mag. Zool. and Bot., vol. 2, p. 488. December, 1838.

1847. *M[imon] bennettii* GRAY, Proc. Zool. Soc. London, p. 14.

1885. *Mimon bennettii* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 604. 1885.

TYPE LOCALITY.—South America. (North to southern Mexico.)

Genus PHYLLOSTOMUS Lacépède.

1799. *Phyllostomus* LACÉPÈDE, Tableau des divisions, sous-divisions, ordres et genres des mammifères, p. 16 (Published as supplement to Discours d'ouverture et de clôture du cours d'histoire naturelle, et tableaux méthodiques des mammifères et des oiseaux). Type, *Vespertilio hastatus* PALLAS.

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***Phyllostomus hastatus panamensis** Allen.

1885. *Phyllostoma hastatum* TRUE, Proc. U. S. Nat. Mus. vol. 7, (1884), p. 604. 1885.

1904. *Phyllostomus hastatus panamensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 20, p. 233. June 29, 1904.

TYPE LOCALITY.—Boqueron, Chiriqui, Panama.

***Phyllostomus verrucosus** Elliot.

1905. *Phyllostoma verrucosum* ELLIOT, Proc. Biol. Soc. Washington, vol. 18, p. 236. December 9, 1905.

TYPE LOCALITY.—Niltepec, Oaxaca, Mexico.

Genus TRACHOPS Gray.

1847. *Trachops* GRAY, Proc. Zool. Soc. London, p. 14. Type, *Trachops fuliginosus* GRAY = *Vampyrus cirrhosus* SPIX.

***Trachops cirrhosus** (Spix).

1823. *Vampyrus cirrhosus* SPIX, Simiar. et Vespert. Brasil., p. 64.

1878. *Trachyops cirrhosus* DOBSON, Catal. Chiropt. Brit. Mus., p. 481.

1885. *Trachyops cirrhosus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 604. 1885.

TYPE LOCALITY.—Brazil. (Ranges north to southern Mexico.)

Genus CHROTOPTERUS Peters.

1865. *Chrotopterus* PETERS, Monatsber. k. preuss. Akad. Wissensch. Berlin, p. 505. Type, *Vampyrus auritus* PETERS.

***Chrotopterus auritus** (Peters).

1856. *Vampyrus auritus* PETERS, Abhandl. k. preuss. Akad. Wissensch. Berlin, p. 415.

1865. *Chrotopterus auritus* PETERS, Monatsber. k. preuss. Akad. Wissensch. Berlin, p. 505.

1885. *Vampyrus auritus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 604. 1885.

1900. *Chrotopterus auritus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 13, p. 91. May 12, 1900.

TYPE LOCALITY.—Mexico.

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Genus VAMPYRUS Leach.

1822. *Vampyrus* LEACH, Trans. Linn. Soc. vol. 13, p. 79. Type, *Vespertilio spectrum* LINNÆUS.

***Vampyrus spectrum** (Linnæus).

1758. [*Vespertilio*] *spectrum* LINNÆUS, Syst. Nat., 10 ed., vol. 1, p. 31.

1822. *Vampyrus spectrum* LEACH, Trans. Linn. Soc., vol. 13, p. 80.

1885. *Vampyrus spectrum* TRUE, Proc. U. S. Nat. Mus. vol. 7 (1884), p. 604. 1885.

TYPE LOCALITY.—South America. (Ranges north to southern Mexico.)

Subfamily GLOSSOPHAGINÆ.

Genus GLOSSOPHAGA Geoffroy.

1818. *Glossophaga* GEOFFROY, Mém. mus. hist. nat. Paris, vol. 4, p. 418. Type, *Vespertilio soricinus* PALLAS.

†*Glossophaga mutica Merriam.

1898. *Glossophaga mutica* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 18. January 27, 1898.

TYPE LOCALITY.—Maria Madre Island, Tres Marias Islands, State of Jalisco, Mexico.

***Glossophaga soricina soricina** (Pallas).

1766. *Vespertilio soricinus* PALLAS, Miscell. Zool., p. 48.

1818. *Glossophaga soricina* GEOFFROY, Mém. mus. hist. nat. Paris, vol. 4, p. 418.

1885. *Glossophaga soricina* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 604. 1885.

TYPE LOCALITY.—Surinam. (Ranges north to central Mexico.)

***Glossophaga soricina antillarum** Rehn.

1902. *Glossophaga soricina antillarum* REHN, Proc. Acad. Nat. Sci. Philadelphia, p. 37. April 23, 1902.

TYPE LOCALITY.—Port Antonio, Jamaica.

Genus LONCHOPHYLLA Thomas.

1903. *Lonchophylla* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 12, p. 458. October, 1903. Type, *Lonchophylla mordax* THOMAS.

†*Lonchophylla robusta Miller.

1912. *Lonchophylla robusta* MILLER, Proc. U. S. Nat. Mus., vol. 42, p. 23. March 6, 1912.

TYPE LOCALITY.—Cave on Chilibrillo River, Panama.

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Genus MONOPHYLLUS Leach.[1]

1822. *Monophyllus* LEACH, Trans. Linn. Soc., vol. 13, p. 75. Type, *Monophyllus redmani* LEACH.

***Monophyllus redmani** Leach.

1822. *Monophyllus redmani* LEACH, Trans. Linn. Soc., vol. 13, p. 76.

1885. *Monophyllus redmani* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 605. 1885.

TYPE LOCALITY.—Jamaica.

RANGE.—Jamaica.

†*Monophyllus cubanus Miller.

1902. *Monophyllus cubanus* MILLER, Proc. Acad. Nat. Sci. Philadelphia, p. 410. September 12, 1902.

TYPE LOCALITY.—Baracoa, eastern Cuba.

RANGE.—Cuba.

†*Monophyllus portoricensis Miller.

1900. *Monophyllus portoricensis* MILLER, Proc. Washington Acad. Sci., vol. 2, p. 34. March 30, 1900.

TYPE LOCALITY.—Cave near Bayamon, Porto Rico.

RANGE.—Porto Rico.

†*Monophyllus plethodon Miller.

1900. *Monophyllus plethodon* MILLER, Proc. Washington Acad. Sci., vol. 2, p. 35. March 30, 1900.

TYPE LOCALITY.—St. Michaels Parish, Barbados.

RANGE.—Barbados.

†*Monophyllus luciæ Miller.

1902. *Monophyllus luciæ* MILLER, Proc. Acad. Nat. Sci. Philadelphia, p. 411. September 12, 1902.

TYPE LOCALITY.—Santa Lucia Island, Lesser Antilles.

RANGE.—Santa Lucia.

†*Monophyllus clinedaphus Miller.

1900. *Monophyllus clinedaphus* MILLER, Proc. Washington Acad. Sci., vol. 2, p. 36. March 30, 1900.

TYPE LOCALITY.—Unknown.

RANGE.—Unknown.

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[1] Revised by Miller, Proc. Washington Acad. Sci., vol. 2, pp. 31-38, March 30, 1900.

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Genus ANOURA Gray.

1838. *Anoura* GRAY, Mag. Zool. and Bot., vol. 2, p. 490. December, 1838. Type, *Anoura geoffroyi* GRAY.

***Anoura geoffroyi** Gray.

1838. *Anoura geoffroyi* GRAY, Mag. Zool. and Bot., vol. 2, p. 490. December, 1838.

1885. *Glossonycteris lasiopyga* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 605. 1885.

1893. *Anura geoffroyi* THOMAS, Proc. Zool. Soc. London, p. 335.

TYPE LOCALITY.—Brazil. (Ranges north to southern Mexico.)

Genus CHŒRONYCTERIS Tschudi.

1844. *Chœronycteris* TSCHUDI, Fauna Peruana, p. 70. Type, *Chœronycteris mexicana* TSCHUDI.

***Chœronycteris mexicana** Tschudi.

1844. *Chœronycteris mexicana* TSCHUDI, Fauna Peruana, p. 72.

1885. *Chœronycteris mexicana* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 605. 1885.

TYPE LOCALITY.—Mexico.

Chœronycteris godmani Thomas.

1885. *Chœronycteris minor* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 605. 1885. (Not of Peters, 1868.)

1903. *Chœronycteris godmani* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 11, p. 288. March, 1903.

TYPE LOCALITY.—Guatemala.

Genus HYLONYCTERIS Thomas.

1903. *Hylonycteris* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 11, p. 286. March, 1903. Type, *Hylonycteris underwoodi* THOMAS.

Hylonycteris underwoodi Thomas.

1903. *Hylonycteris underwoodi* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 11, p. 286. March, 1903.

TYPE LOCALITY.—Rancho Redondo, Costa Rica.

Genus LEPTONYCTERIS Lydekker.

1891. *Leptonycteris* LYDEKKER, in Flower and Lydekker, Mammals, living and extinct, p. 674. Type, *Ischnoglossa nivalis* SAUSSURE.

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***Leptonycteris nivalis** (Saussure).

1860. *I[schnoglossa] nivalis* SAUSSURE, Revue et magasin de zoologie, ser. 2, vol. 12, p. 492. November, 1860.

1885. *Ischnoglossa nivalis* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 605. 1885.

1900. *Leptonycteris nivalis* MILLER, Proc. Biol. Soc. Washington, vol. 13, p. 126. April 6, 1900.

TYPE LOCALITY.—Near the snow line on Mount Orizaba, Mexico.

Genus LICHONYCTERIS Thomas.

1895. *Lichonycteris* THOMAS, Ann. and Mag. Nat. Hist., ser 6, vol. 16, p. 55. July, 1895. Type, *Lichonycteris obscura* THOMAS.

***Lichonycteris obscura** Thomas.

1895. *Lichonycteris obscurus* THOMAS, Ann. and Mag. Nat. Hist., ser. 6, vol. 16, p. 56. July, 1895.

TYPE LOCALITY.—Managua, Nicaragua.

Subfamily HEMIDERMINÆ.

Genus HEMIDERMA Gervais.[1]

1855. *Hemiderma* GERVAIS, Expéd. du Comte de Castelnau, zool., mamm., p. 43. Type, *Phyllostoma brevicaudum* WIED = *Vespertilio perspicillatus* LINNÆUS.

***Hemiderma perspicillatum perspicillatum** (Linnæus).

1758. [*Vespertilio*] *perspicillatus* LINNÆUS, Syst. Nat., ed. 10, vol. 1, p. 31.

1885. *Carollia brevicauda* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 604. 1885.

1901. *Hemiderma perspicillatum* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 8, p. 192. September, 1901.

TYPE LOCALITY.—Brazil.

RANGE.—Probably the whole of tropical and subtropical South America, Trinidad, the Lesser, and perhaps the Greater, Antilles. The northern limit may be considered to be Panama.

***Hemiderma perspicillatum aztecum** (Saussure).

1860. *Carollia azteca* SAUSSURE, Revue et magasin de zoologie, ser. 2, vol. 12, p. 480.

1907. *Hemiderma perspicillatum aztecum* HAHN, Proc. U. S. Nat. Mus., vol. 32, p. 111. February 9, 1907.

TYPE LOCALITY.—Southern Mexico.

RANGE.—The hot humid regions of southern Mexico and Central America from Panama as far north as Orizaba.

[1] Revised by Hahn, Proc. U. S. Nat. Mus., vol. 32, pp. 103–118, February 9, 1907.

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†*Hemiderma subrufum Hahn.

1905. *Hemiderma subrufum* HAHN, Proc. Biol. Soc. Washington, vol. 18, p. 247. December 9, 1905.

TYPE LOCALITY.—Santa Ifigenia, near west coast of Oaxaca, Mexico.

RANGE.—Southern Mexico.

†*Hemiderma castaneum (H. Allen).

1890. *Carollia castanea* H. ALLEN, Proc. Amer. Philos. Soc., vol. 18, p. 19. February 25, 1890.

1897. [*Hemiderma*] *castaneum* TROUESSART, Catal. Mamm. viv. foss., p. 157.

TYPE LOCALITY.—Costa Rica.

RANGE.—Known only from the type locality.

Subfamily STURNIRINÆ.

Genus STURNIRA Gray.

1842. *Sturnira* GRAY, Ann. and Mag. Nat. Hist., vol. 10, p. 257. December, 1842. Type, *Sturnira spectrum* GRAY = *Phyllostoma lilium* E. GEOFFROY.

*Sturnira lilium (E. Geoffroy).

1810. *Phyllostoma lilium* E. GEOFFROY, Ann. mus. hist. nat., Paris, vol. 15, p. 181.

1855. *Sturnira lilium* GERVAIS, Expéd. du Comte de Castelnau, zool., mamm., p. 39.

1885. *Sturnira lilium* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 605. 1885.

TYPE LOCALITY.—Paraguay. (Ranges north to Jamaica and southern Mexico.)

Subfamily STENODERMINÆ.

Genus BRACHYPHYLLA Gray.

1833. *Brachyphylla* GRAY, Proc. Zool. Soc. London, p. 122. Type, *Brachyphylla cavernarum* GRAY.

*Brachyphylla cavernarum Gray.

1833. *Brachyphylla cavernarum* GRAY, Proc. Zool. Soc. London, p. 123.

1885. *Brachyphyllum cavernarum* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 605. 1885.

TYPE LOCALITY.—Island of St. Vincent, West Indies.

†*Brachyphylla nana Miller.

1902. *Brachyphylla nana* MILLER, Proc. Acad. Nat. Sci. Philadelphia, p. 409. September 12, 1902.

TYPE LOCALITY.—El Guama, Cuba.

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Genus URODERMA Peters.[1]

1865. *Uroderma* PETERS, Monatsber. k. preuss. Akad. Wissensch. Berlin, p. 588. Type, *Phyllostoma personatum* PETERS (not WAGNER) = *Uroderma bilobatum* PETERS.

***Uroderma bilobatum** Peters.

1866. *Uroderma bilobatum* PETERS, Monatsber. k. preuss. Akad. Wissensch. Berlin, p. 587.

†1902. *Uroderma convexum* LYON, Proc. Biol. Soc. Washington, vol. 15, p. 83. April 25, 1902. (Colon, Panama.)

TYPE LOCALITY.—São Paulo, Brazil.

RANGE.—From São Paulo and Peru at least as far north as Costa Rica.

Genus VAMPYROPS Peters.

1865. *Vampyrops* PETERS, Monatsber. k. preuss. Akad. Wissensch. Berlin, p. 356. Type, *Phyllostoma lineatum* E. GEOFFROY.

***Vampyrops helleri** Peters.

1866. *Vampyrops helleri* PETERS, Monatsber. k. preuss. Akad. Wissensch. Berlin, p. 392.

1902. *Vampyrops helleri* BANGS, Bull. Mus. Comp. Zool., vol. 39, p. 50. April, 1902.

TYPE LOCALITY.—Mexico.

***Vampyrops lineatus** (E. Geoffroy).

1810. *Phyllostoma lineatum* E. GEOFFROY, Ann. mus. hist. nat. Paris, p. 180.

1866. *V[ampyrops] lineatus* PETERS, Monatsber. k. preuss. Akad. Wissensch. Berlin, p. 392.

1885. *Vampyrops lineatus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 605. 1885.

TYPE LOCALITY.—Paraguay. (Supposed to range north to Central America.)

***Vampyrops vittatus** (Peters).

1859. *Artibeus vittatus* PETERS, Monatsber. k. preuss. Akad. Wissensch. Berlin, p. 225.

1865. *V[ampyrops] vittatus* PETERS, Monatsber. k. preuss. Akad. Wissensch. Berlin, p. 356.

1885. *Vampyrops vittatus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 605. 1885.

TYPE LOCALITY.—Puerto Cabello, Venezuela. (Ranges north to Costa Rica.)

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[1] Revised by Andersen, Proc. Zool. Soc. London, 1908, pp. 212-221, September, 1908.

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Genus VAMPYRODES Thomas.

1900. *Vampyrodes* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 5, p. 270. March, 1900. Type, *Vampyrops caracciolæ* THOMAS.

Vampyrodes major G. M. Allen.

1908. *Vampyrodes major* G. M. ALLEN, Bull. Mus. Comp. Zool., vol. 52, p. 38. July, 1908.

TYPE LOCALITY.—San Pablo, Panama.

Genus VAMPYRESSA Thomas.

1900. *Vampyressa* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 5, p. 270. March, 1900. Type, *Phyllostoma pusillum* WAGNER.

†***Vampyressa minuta** Miller.

1912. *Vampyressa minuta* MILLER, Proc. U. S. Nat. Mus., vol. 42, p. 25. March 6, 1912.

TYPE LOCALITY.—Cabima, Panama.

Genus CHIRODERMA Peters.

1860. *Chiroderma* PETERS, Monatsber. k. preuss. Akad. Wissensch. Berlin, p. 747. Type, *Chiroderma villosum* PETERS.

†***Chiroderma isthmicum** Miller.

1912. *Chiroderma isthmicum* MILLER, Proc. U. S. Nat. Mus., vol. 42, p. 25. March 6, 1912.

TYPE LOCALITY.—Cabima, Panama.

***Chiroderma salvini** Dobson.

1878. *Chiroderma salvini* DOBSON, Catal. Chiropt. Brit. Mus., p. 532.

1885. *Chiroderma salvini* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 605. 1885.

TYPE LOCALITY.—Costa Rica.

Genus ECTOPHYLLA H. Allen.

1892. *Ectophylla* H. ALLEN, Proc. U. S. Nat. Mus., vol. 15, p. 441. Type, *Ectophylla alba* H. ALLEN.

†***Ectophylla alba** H. Allen.

1892. *Ectophylla alba* H. ALLEN, Proc. U. S. Nat. Mus., vol. 15, p. 442. October 26, 1892.

TYPE LOCALITY.—Segovia River, Eastern Honduras.

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Genus ARTIBEUS Leach.[1]

1822. *Artibeus* Leach, Trans. Linn. Soc., vol. 13, p. 75. Type, *Artibeus jamaicensis* Leach.

1855. *Dermanura* Gervais, Expéd. du Comte de Castelnau, zool., mamm., p. 36. Type, *Dermanura cinereum* Gervais.

***Artibeus planirostris planirostris** (Spix).

1823. *Phyllostoma planirostre* Spix, Simiar. et Vespert. Brasil., p. 66.

1878. *Artibeus planirostris* Dobson, Catal. Chiropt. Brit. Mus., p. 515 (part).

Type locality.—Suburbs of Bahia, Brazil.

Range.—From central Brazil to southern Mexico.

***Artibeus planirostris grenadensis** Andersen.

1906. *Artibeus planirostris grenadensis* Andersen, Ann. and Mag. Nat. Hist., ser. 7, vol. 18, p. 420. December, 1906.

Type Locality.—Grenada, Lesser Antilles.

Range.—Grenada.

†*Artibeus hirsutus Andersen.

1906. *Artibeus hirsutus* Andersen, Ann. and Mag. Nat. Hist., ser. 7, vol. 18, p. 420. December, 1906.

Type Locality.—La Salada, Michoacan, Mexico.

Range.—States of Michoacan, Colima, and Jalisco, Mexico.

***Artibeus jamaicensis jamaicensis** Leach.

1821. *Artibeus jamaicensis* Leach, Trans. Linn. Soc., vol. 13, p. 75.

1885. *Artibeus perspicillatus* True, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 605. 1885.

1889. *Dermanura eva* Cope, Amer. Nat., vol. 23, p. 130. February, 1889. (Island of St. Martins, Lesser Antilles.)

1890. *Artibeus coryi* Allen, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 173. November 14, 1890. (St. Andrews Island, Caribbean Sea.)

1904. *Artibeus insularis* Allen, Bull. Amer. Mus. Nat. Hist., vol. 20, p. 231. June 29, 1904. (Island of St. Kitts, Lesser Antilles.)

Type Locality.—Jamaica.

Range.—Central America and southern Mexico, as far north as Morelos, and exclusive of Yucatan; St. Andrews and Old Providence Islands; Jamaica, Porto Rico, Santo Domingo, and Lesser Antilles as far east as St. Kitts.

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[1] Revised by Andersen, Proc. Zool. Soc. London, 1908, pp. 224-319, September, 1908.

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***Artibeus jamaicensis parvipes** (Rehn).

1902. *Artibeus parvipes* REHN, Proc. Acad. Nat. Sci. Philadelphia, p. 639. December 12, 1902.

1908. *Artibeus jamaicensis parvipes* ANDERSEN, Proc. Zool. Soc. London, p. 261. September, 1908.

TYPE LOCALITY.—Santiago de Cuba, Cuba.

RANGE.—Cuba, perhaps extending to Florida.

Artibeus jamaicensis richardsoni Allen.

1908. *Artibeus jamaicensis richardsoni* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 24, p. 669. October 13, 1908.

TYPE LOCALITY.—Matagalpa, Nicaragua.

***Artibeus jamaicensis yucatanicus** (Allen).

1904. *Artibeus yucatanicus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 20, p. 232. June 29, 1904.

1908. *Artibeus jamaicensis yucatanicus* ANDERSEN, Proc. Zool. Soc. London, p. 263. September, 1908.

TYPE LOCALITY.—Chichenitza, Yucatan.

RANGE.—Yucatan, including the coast islands.

***Artibeus jamaicensis palmarum** (Allen and Chapman).

1897. *Artibeus palmarum* ALLEN and CHAPMAN, Bull. Amer. Mus. Nat. Hist., vol. 9, p. 16. February 26, 1897.

1897. *Artibeus intermedius* J. A. ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 9, p. 33. March 11, 1897. (San José, Costa Rica.)

1908. *Artibeus jamaicensis palmarum* ANDERSEN, Proc. Zool. Soc. London, p. 278. September, 1908.

TYPE LOCALITY.—Trinidad.

RANGE.—Venezuela, including Trinidad and St. Vincent Islands, through Central America, to Vera Cruz and Jalisco, Mexico.

†*Artibeus jamaicensis præceps Andersen.

1906. *Artibeus jamaicensis præceps* ANDERSEN, Ann. and Mag. Nat. Hist., ser. 7, vol. 18, p. 421. December, 1906.

TYPE LOCALITY.—Guadeloupe Island, Lesser Antilles.

RANGE.—Islands of Guadeloupe and Dominica.

***Artibeus watsoni** Thomas.

1901. *Artibeus watsoni* THOMAS, Ann. and Mag. Nat. Hist., ser 7, vol. 7, p. 542. June, 1901.

TYPE LOCALITY.—Bogava, Chiriqui, Panama.

RANGE.—Central America: Panama, Nicaragua.

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***Artibeus toltecus** (Saussure).

1860. *Stenoderma tolteca* SAUSSURE, Revue et magasin de zoologie, ser 2, vol. 12, p. 427. October, 1860.

1885. *Artibeus cinereus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 605. 1885.

1908. *Artibeus toltecus* ANDERSEN, Proc. Zool. Soc. London, p. 297. September, 1908.

TYPE LOCALITY.—Mexico.

RANGE.—Central America, southern and central Mexico, as far north as Durango.

†*Artibeus phæotis (Miller).

1902. *Dermanura phæotis* MILLER, Proc. Acad. Nat. Sci. Philadelphia, p. 405. September 12, 1902.

1906. *Dermanura jucundum* ELLIOT, Proc. Biol. Soc. Washington, vol. 19, p. 50. May 1, 1906. (Achotal, Vera Cruz, Mexico.)

1908. *Artibeus phæotis* ANDERSEN, Proc. Zool. Soc. London, p. 303. September, 1908.

TYPE LOCALITY.—Chichenitza, Yucatan.

RANGE.—Yucatan and southern Mexico.

†*Artibeus aztecus Andersen.

1906. *Artibeus aztecus* ANDERSEN, Ann. and Mag. Nat. Hist., ser. 7, vol. 18, p. 422. December, 1906.

TYPE LOCALITY.—Tetela del Volcan, Morelos, Mexico.

RANGE.—As yet only known from Morelos, Mexico.

Artibeus turpis Andersen.

1906. *Artibeus turpis* ANDERSEN, Ann. and Mag. Nat. Hist., ser. 7, vol. 18, p. 422. December, 1906.

TYPE LOCALITY.—Teapa, Tabasco, Mexico.

RANGE.—Known from the type locality only.

***Artibeus nanus** Andersen.

1906. *Artibeus nanus* ANDERSEN, Ann. and Mag. Nat. Hist., ser. 7, vol. 18, p. 423. December, 1906.

TYPE LOCALITY.—Tierra Colorado, Sierra Madre del Sur, Guerrero, Mexico.

RANGE.—Mexico, as far north as Sinaloa.

Genus ARDOPS Miller.

1906. *Ardops* MILLER, Proc. Biol. Soc. Washington, vol. 19, p. 84. June 4, 1906. Type, *Stenoderma nichollsi* THOMAS.

Ardops haitiensis Allen.

1908. *Ardops haitiensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 24, p. 581. September 11, 1908.

TYPE LOCALITY.—Caña Honda, Santo Domingo.

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†*Ardops luciæ (Miller).

1902. *Stenoderma luciæ* MILLER, Proc. Acad, Nat. Sci. Philadelphia, p. 407. September 12, 1902.

1906. *A[rdops] luciæ* MILLER, Proc. Biol. Soc. Washington, vol. 19, p. 84. June 4, 1906.

TYPE LOCALITY.—Santa Lucia, Lesser Antilles.

Ardops montserratensis (Thomas).

1894. *Stenoderma montserratense* THOMAS, Proc. Zool. Soc. London, p. 133.

1906. *A[rdops] montserratensis* MILLER, Proc. Biol. Soc. Washington, vol. 19, p. 84. June 4, 1906.

TYPE LOCALITY.—Montserrat, Lesser Antilles.

*Ardops nichollsi (Thomas).

1891. *Stenoderma nichollsi* THOMAS, Ann. and Mag. Nat. Hist., ser. 6, vol. 7, p. 529. June, 1891.

1906. *Ardops nichollsi* MILLER, Proc. Biol. Soc., Washington, vol. 19, p. 84. June 4, 1906.

TYPE LOCALITY.—Dominica, Lesser Antilles.

Genus PHYLLOPS Peters.

1865. *Phyllops* PETERS, Monatsber. k. preuss. Akad. Wissensch. Berlin, p. 356. Type, *Phyllostoma albomaculatum* GUNDLACH = *Arctibeus falcatus* GRAY.

*Phyllops falcatus (Gray).

1839. *Arctibeus falcatus* GRAY, Ann. Nat. Hist., vol. 4, p. 1. September, 1839.

1885. *Stenoderma falcatum* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 605. 1885.

1907. *Phyllops falcatus* MILLER, Fam. and Gen. Bats, p. 165. June 29, 1907.

TYPE LOCALITY.—Cuba.

Genus ARITEUS Gray.

1837. *Ariteus* GRAY, Mag. Zool. and Bot., vol. 2, p. 491. December, 1837. Type, *Istiophorus flavescens* GRAY (*Artibeus achradophilus* GOSSE.)

*Ariteus flavescens (Gray).

1831. *Istiophorus flavescens* GRAY, Zoological Miscellany, p. 37.

1838. *Ariteus flavescens* GRAY, Mag. Zool. and Bot., vol. 2, p. 491.

1885. *Stenoderma achradophilum* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 605. 1885.

TYPE LOCALITY.—Unknown. (Range, Jamaica.)

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Genus PYGODERMA Peters.

1865. *Pygoderma* PETERS, Monatsber. k. preuss. Akad. Wissensch. Berlin, p. 357. Type, *Phyllostoma bilabiatum* WAGNER.

***Pygoderma bilabiatum** (Wagner).

1843. *Phyllostoma bilabiatum* WAGNER, Wiegmann's Arch. f. Naturg., IX, vol. 1, p. 366.

1878. *Pygoderma bilabiatum* DOBSON, Catal. chiropt. Brit. Mus., p. 536.

1885. *Pygoderma bilabiatum* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 605. 1885.

TYPE LOCALITY.—Ipanema, São Paulo, Brazil. (Ranges north to southern Mexico.)

Genus CENTURIO Gray.[1]

1842. *Centurio* GRAY, Ann. and Mag. Nat. Hist., vol. 10, p. 259. December, 1842. Type, *Centurio senex* GRAY.

***Centurio senex** Gray.

1842. *Centurio senex* GRAY, Ann. and Mag. Nat. Hist., vol. 10, p. 259. December, 1842.

†1861. *C[enturio] mcmurtrii* H. ALLEN, Proc. Acad, Nat. Sci. Philadelphia, p. 360. (Mirador, Vera Cruz, Mexico.)

1885. *Centurio senex* and *Centurio mcmurtrii* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 605. 1885.

1891. *Centurio minor* WARD, Amer. Nat., vol. 25, p. 750. August, 1891. (Cerro de los Pajaros, Las Vigas, State of Vera Cruz, Mexico.)

TYPE LOCALITY.—Unknown. (Ranges north to southern Mexico.)

Subfamily PHYLLONYCTERINÆ.

Genus PHYLLONYCTERIS Gundlach.

1861. *Phyllonycteris* GUNDLACH, Monatsber. k. preuss. Akad. Wissensch. Berlin (1860), p. 817. Type, *Phyllonycteris poeyi* GUNDLACH.

***Phyllonycteris poeyi** Gundlach.

1861. *Ph[yllonycteris] poeyi* GUNDLACH, Monatsber. k. preuss. Akad. Wissensch. Berlin (1860), p. 817.

1885. *Phyllonycteris poeyi* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 604. 1885.

TYPE LOCALITY.—Cuba.

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[1] Revised by Rehn, Proc. Acad. Nat. Sci. Philadelphia, 1901, pp. 295–302, June 8, 1901.

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Genus EROPHYLLA Miller.

1906. *Erophylla* MILLER, Proc. Biol. Soc. Washington, vol. 19, p. 84. June 4, 1906. Type, *Phyllonycteris bombifrons* MILLER.

†***Erophylla bombifrons** (Miller).

1899. *Phyllonycteris bombifrons* MILLER, Proc. Biol. Soc. Washington, vol. 13, p. 36. May 29, 1899.

1906. *Erophylla bombifrons* MILLER, Proc. Biol. Soc. Washington, vol. 19, p. 84. June 4, 1906.

TYPE LOCALITY.—Cave near Bayamon, Porto Rico.

†***Erophylla planifrons** (Miller).

1899. *Phyllonycteris planifrons* MILLER, Proc. Biol. Soc. Washington, vol. 13, p. 34. May 29, 1899.

1906. *E[rophylla] planifrons* MILLER, Proc. Biol. Soc. Washington, vol. 19, p. 84. June 4, 1906.

TYPE LOCALITY.—Nassau, New Providence, Bahamas.

Erophylla santacristobalensis (Elliot).

1905. *Phyllonycteris santa-cristobalensis* ELLIOT, Proc. Biol. Soc. Washington, vol. 18, p. 236. December 9, 1905.

1906. *E[rophylla] santacristobalensis* MILLER, Proc. Biol. Soc. Washington, vol. 19, p. 84. June 4, 1906.

TYPE LOCALITY.—San Cristobal, Santo Domingo.

Erophylla sezekorni (Gundlach).

1861. *Phyllonycteris sezekorni* GUNDLACH, Monatsber. k. preuss. Akad. Wissensch. Berlin (1860), p. 818.

1885. *Phyllonycteris sezekorni* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 605. 1885.

1906. *E[rophylla] sezekorni* MILLER, Proc. Biol. Soc. Washington, vol. 19, p. 84. June 4, 1906.

TYPE LOCALITY.—Cuba.

Genus REITHRONYCTERIS Miller.

1898. *Reithronycteris* MILLER, Proc. Acad. Nat. Sci. Philadelphia, p. 333. July 12, 1898. Type, *Reithronycteris aphylla* MILLER.

Reithronycteris aphylla Miller.

1898. *Reithronycteris aphylla* MILLER, Proc. Acad. Nat. Sci. Philadelphia, p. 334. July 12, 1898.

TYPE LOCALITY.—Jamaica.

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Family DESMODONTIDÆ.

Genus DESMODUS Wied.

1826. *Desmodus* WIED, Beiträge zur Naturgesch. Brasilien, vol. 2, p. 231. Type, *Desmodus rufus* WIED = *Phyllostoma rotundum* E. GEOFFROY.

***Desmodus rotundus murinus** (Wagner).

1840. *D[esmodus] murinus* WAGNER, Schreber's Säugthiere, Suppl., vol. 1, p. 377.

1885. *Desmodus rufus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 605. 1885.

1912. *Desmodus rotundus murinus* OSGOOD, Field Mus. Nat. Hist., publ. 155, zool. ser., vol. 10, p. 63. January 10, 1912.

TYPE LOCALITY.—Mexico.

Genus DIPHYLLA Spix.

1823. *Diphylla* SPIX, Simiar. et Vespert. Brasil., p. 68. Type, *Diphylla ecaudata* SPIX.

***Diphylla centralis** Thomas.

1885. *Diphylla ecaudata* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 605. 1885.

1903. *Diphylla centralis* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 11, p. 378. April, 1903.

TYPE LOCALITY.—Boquete, Chiriqui, Panama.

Family NATALIDÆ.

Genus NATALUS Gray.

1838. *Natalus* GRAY, Mag. Zool. and Bot., vol. 2, p. 496. December, 1838. Type, *Natalus stramineus* GRAY.

†*Natalus major Miller.

1902. *Natalus major* MILLER, Proc. Acad. Nat. Sci. Philadelphia, p. 398. September 12, 1902.

TYPE LOCALITY.—Near Savaneta, Santo Domingo.

†*Natalus mexicanus Miller.

1902. *Natalus mexicanus* MILLER, Proc. Acad. Nat. Sci. Philadelphia, p. 399. September 12, 1902.

TYPE LOCALITY.—Santa Anita, Lower California, Mexico.

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***Natalus stramineus** Gray.

1838. *Natalus stramineus* GRAY, Mag. Zool. and Bot., vol. 2, p. 496. December, 1838.

1885. *Natalus stramineus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 603. 1885. (Part.)

TYPE LOCALITY.—Unknown. (Ranges north to the Lesser Antilles.)

Genus CHILONATALUS Miller.

1898. *Chilonatalus* MILLER, Proc. Acad. Nat. Sci. Philadelphia, p. 326. July 12, 1898. Type, *Natalus micropus* DOBSON.

†*Chilonatalus brevimanus (Miller).

1898. *Natalus* (*Chilonatalus*) *brevimanus* MILLER, Proc. Acad. Nat. Sci. Philadelphia, p. 328. July 12, 1898.

1903. *C[hilonatalus] brevimanus* MILLER, Proc. Biol. Soc. Washington, vol. 16, p. 119. September 30, 1903.

TYPE LOCALITY.—Old Providence Island, Caribbean Sea.

***Chilonatalus micropus** (Dobson).

1880. *Natalus micropus* DOBSON, Proc. Zool. Soc. London, p. 443.

1903. *Chilonatalus micropus* MILLER, Proc. Biol. Soc. Washington, vol. 16, p. 119. September 30, 1903.

TYPE LOCALITY.—Kingston, Jamaica.

Inadvertently omitted from True's list.

†*Chilonatalus tumidifrons Miller.

1903. *Chilonatalus tumidifrons* MILLER, Proc. Biol. Soc. Washington, vol. 16, p. 119. September 30, 1903.

TYPE LOCALITY.—Watling Island, Bahamas.

Genus NYCTIELLUS Gervais.

1855. *Nyctiellus* GERVAIS, Expéd. du Comte de Castelnau, Zool., Mamm., p. 84. Type, *Vespertilio lepidus* GERVAIS.

***Nyctiellus lepidus** (Gervais).

1838. *Vespertilio lepidus* GERVAIS, in Ramon de la Sagra, Hist. de l'île de Cuba, Mamm., p. 22.

1855. *Nyctiellus lepidus* GERVAIS, Expéd. du Comte de Castelnau, Zool., Mamm., p. 84.

1885. *Natalus lepidus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 603. 1885.

1904. *Nyctiellus lepidus* MILLER, Proc. U. S. Nat. Mus., vol. 27, p. 340. January 23, 1904.

TYPE LOCALITY.—Cuba.

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Family THYROPTERIDÆ.

Genus THYROPTERA Spix.

1823. *Thyroptera* SPIX, Simiar. et Vespert. Brasil., p. 61. Type, *Thyroptera tricolor* SPIX.

***Thyroptera discifera** (Lichtenstein and Peters).

1854. *Hyonycteris discifera* LICHTENSTEIN and PETERS, Monatsber. k. preuss. Akad. Wissensch. Berlin, p. 336.

1896. *Thyroptera discifera* MILLER, Proc. Biol. Soc. Washington, vol. 10, p. 109. July 22, 1896.

TYPE LOCALITY.—Puerto Caballos, District of Cortez, Honduras.

Family VESPERTILIONIDÆ.

Subfamily VESPERTILIONINÆ.

Genus MYOTIS Kaup.[1]

1829. *Myotis* KAUP, Skizzirte Entw.-Gesch. u. natürl. Syst. europ. Thierw., vol. 1, p. 106. Type, *Vespertilio myotis* BORKHAUSEN.

***Myotis velifer** (Allen).

1885. *Vespertilio albescens* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 603. 1885. (Part.)

1890. *Vespertilio velifer* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 177. December 10, 1890.

1897. *Myotis velifer* MILLER, North Amer. Fauna, No. 13, p. 56. October 16, 1897.

1901. *Myotis californicus jaliscensis* MENEGAUX, Bull. mus. hist. nat. Paris, p. 321. (Rock fissures in ravine near Lake Zacoalco, Jalisco, Mexico.)

TYPE LOCALITY.—Santa Cruz del Valle, near Guadalajara, State of Jalisco, Mexico.

RANGE.—From Hidalgo, northern Michoacan, and the City of Mexico north to the southern border of the United States.

***Myotis incautus** (Allen).

1896. *Vespertilio incautus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 8, p. 239. November 21, 1896.

1902. *Myotis incautus* MILLER, Proc. Biol. Soc. Washington, vol. 15, p. 155. June 20, 1902.

TYPE LOCALITY.—San Antonio, Bexar County, Texas.

†*Myotis grisescens Howell.

1909. *Myotis grisescens* HOWELL, Proc. Biol. Soc. Washington, vol. 22, p. 46. March 10, 1909.

TYPE LOCALITY.—Nickajack Cave, near Shellmound, Marion County, Tennessee.

[1] Revised by Miller, North Amer. Fauna, No. 13, pp. 55–85, October 16, 1897.

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†*Myotis baileyi Hollister.

1909. *Myotis baileyi* HOLLISTER, Proc. Biol. Soc. Washington, vol. 22, p. 44. March 10, 1909.

TYPE LOCALITY.—Base of White Mountains, near Ruidoso, Lincoln County, New Mexico. Altitude, 7,500 feet.

*Myotis peninsularis Miller.

1898. *Myotis peninsularis* MILLER, Ann. and Mag. Nat. Hist., ser. 7, vol. 2, p. 124. August, 1898.

TYPE LOCALITY.—San José del Cabo, Lower California, Mexico.

†*Myotis occultus Hollister.

1909. *Myotis occultus* HOLLISTER, Proc. Biol. Soc. Washington, vol. 23, p. 43. March 10, 1909.

TYPE LOCALITY.—West side of Colorado River, 10 miles above Needles, San Bernardino County, California.

*Myotis lucifugus lucifugus (LeConte).

1831. *V[espertilio] lucifugus* LECONTE, McMurtrie's Cuvier, Animal Kingdom, vol. 1, p. 431.

1885. *Vespertilio lucifugus* and *Vespertilio carolii* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 603. 1885.

1897. *Vespertilio lucifugus austroriparius* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, p. 227. May 22, 1897. (Tarpon Springs, Hillsboro County, Florida.)

1897. *Myotis lucifugus* MILLER, North Amer. Fauna, No. 13, p. 59. October 16, 1897.

TYPE LOCALITY.—Georgia; probably the LeConte plantation, near Riceboro, Liberty County.

RANGE.—The whole of North America north of the southern boundary of the United States, except in the Rocky Mountains and on the Pacific coast of California, Oregon, Washington, British Columbia, and southern Alaska.

†*Myotis lucifugus alascensis Miller.

1897. *Myotis lucifugus alascensis* MILLER, North Amer. Fauna, No. 13, p. 63. October 16, 1897.

TYPE LOCALITY.—Sitka, Alaska.

RANGE.—Humid coast district of southern Alaska and northern British Columbia.

†*Myotis lucifugus longicrus (True).

1886. *Vespertilio longicrus* TRUE, Science, vol. 8, p. 588. December 24, 1886.

1897. *Myotis lucifugus longicrus* MILLER, North Amer. Fauna, No. 13, p. 64. October 16, 1897.

TYPE LOCALITY.—Puget Sound, Washington.

RANGE.—Boreal and Transition zones from Puget Sound east to Wyoming; south at least to Arizona and southern California, and probably much farther.

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†***Myotis pernox** Hollister.

1911. *Myotis pernox* HOLLISTER, Smiths. Misc. Coll., vol. 56, No. 26, p. 4. December 5, 1911.

TYPE LOCALITY.—Henry House, Alberta, Canada.

†***Myotis altifrons** Hollister.

1911. *Myotis altifrons* HOLLISTER, Smiths. Misc. Coll., vol. 56, No. 26, p. 3. December 5, 1911.

TYPE LOCALITY.—Henry House, Alberta, Canada.

***Myotis yumanensis yumanensis** (H. Allen).

1864. *Vespertilio yumanensis* H. ALLEN, Monogr. Bats N. Amer., p. 58, June, 1864.

1897. *Myotis yumanensis* MILLER, North Amer. Fauna, No. 13, p. 66. October 16, 1897.

TYPE LOCALITY.—Old Fort Yuma, Imperial County, California.

RANGE.—Austral zones and lower edge of Transition zone from the southwestern United States to San Luis Potosi and Michoacan, Mexico.

†***Myotis yumanensis saturatus** Miller.

1897. *Myotis yumanensis saturatus* MILLER, North Amer. Fauna, No. 13, p. 68. October 16, 1897.

TYPE LOCALITY.—Hamilton, Skagit County, Washington.

RANGE.—Transition zone in Oregon, Washington, and British Columbia.

Myotis carissima Thomas.

1904. *Myotis (Leuconoe) carissima* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 13, p. 383. May, 1904.

TYPE LOCALITY.—Yellowstone Lake, Yellowstone Park, Wyoming.

***Myotis californicus californicus** (Audubon and Bachman).

1842. *Vespertilio californicus* AUDUBON and BACHMAN, Journ. Acad. Nat. Sci. Philadelphia, vol. 8, pt. 2, p. 285.

1885. *Vespertilio nitidus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 602. 1885.

†1890. *Vespertilio melanorhinus* MERRIAM, North Amer. Fauna, No. 3, p. 46. September 11, 1890. (Little Spring, north base of San Francisco Mountain, Coconino County, Arizona.)

†1894. *Vespertilio nitidus henshawii* H. ALLEN, Monogr. Bats N. Amer. (1903), p. 103. March 14, 1894. (Near Wingate, Bernalillo County, New Mexico.)

1897. *Myotis californicus* MILLER, North Amer. Fauna, No. 13, p. 69. October 16, 1897.

TYPE LOCALITY.—California.

RANGE.—Austral zones and lower part of Transition zone throughout the western United States and Lower California; east to Wyoming and Texas.

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***Myotis californicus pallidus** Stephens.

1900. *Myotis californicus pallidus* STEPHENS, Proc. Biol. Soc. Washington, vol. 13, p. 153. June 13, 1900.

TYPE LOCALITY.—Vallecito, San Diego County, California.

†*Myotis californicus caurinus Miller.

1897. *Myotis californicus caurinus* MILLER, North Amer. Fauna, No. 13, p. 72. October 16, 1897.

TYPE LOCALITY.—Massett, Graham Island, Queen Charlotte Islands, British Columbia, Canada.

RANGE.—The humid coast district of British Columbia, Washington, and Oregon, and possibly of northern California also.

†*Myotis californicus ciliolabrum (Merriam).

[1]886. *Vespertilio ciliolabrum* MERRIAM, Proc. Biol. Soc. Washington, vol. 4, p. 2. December 17, 1886.

1897. *Myotis californicus ciliolabrum* MILLER, North Amer. Fauna, No. 13, p. 72. October 16, 1897.

TYPE LOCALITY.—Near Banner, Trego County, Kansas, in bluff on Hackberry Creek, about 1 mile from Castle Rock.

Myotis californicus durangæ Allen.

1903. *Myotis californicus durangæ* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 19, p. 612. November 12, 1903.

TYPE LOCALITY.—Rio Sestin, northwest Durango, Mexico.

[*Myotis californicus mexicanus (Saussure).

1860. *V[espertilio] mexicanus* SAUSSURE, Revue et magasin de zoologie, ser. 2, vol. 12, p. 282. July, 1860.

1897. *Myotis californicus mexicanus* MILLER, North Amer. Fauna, No. 13, p. 73. October 16, 1897.

TYPE LOCALITY.—Exact locality unknown: probably somewhere in Vera Cruz, Puebla, or Oaxaca, Mexico.

RANGE.—Austral and Transition zones in central and southern Mexico.

***Myotis orinomus** Elliot.

1903. *Myotis orinomus* ELLIOT, Field Columb. Mus., publ. 79, zool. ser., vol. 3, p. 228. June, 1903.

TYPE LOCALITY.—La Grulla, San Pedro Martir Mountains, Lower California, Mexico. Altitude, 8,000 feet.

†*Myotis capitaneus Nelson and Goldman.

1909. *Myotis capitaneus* NELSON and GOLDMAN, Proc. Biol. Soc. Washington, vol. 22, p. 28. March 10, 1909.

TYPE LOCALITY.—San Jorge, 30 miles southwest of Comondu, Lower California, Mexico.

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***Myotis nigricans concinnus** (H. Allen).

1866. *Vespertilio concinnus* H. ALLEN, Proc. Acad. Nat. Sci., Philadelphia, p. 280.

1885. *Vespertilio nigricans* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 602. 1885. (Part.)

1912. *Myotis nigricans concinnus* OSGOOD, Field Mus. Nat. Hist., publ. 155, zool. ser., vol. 10, p. 65. January 10, 1912.

TYPE LOCALITY.—San Salvador.

RANGE.—From Colombia north to extreme southern Mexico.

†*Myotis dominicensis Miller.

1902. *Myotis dominicencis* MILLER, Proc. Biol. Soc. Washington, vol. 15, p. 243. December 16, 1902.

TYPE LOCALITY.—Island of Dominica, Lesser Antilles.

Myotis chiriquensis Allen.

1904. *Myotis chiriquensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 20, p. 77. February 29, 1904.

TYPE LOCALITY.—Boqueron, Chiriqui, Panama.

***Myotis subulatus subulatus** (Say).

1823. *V[espertilio] subulatus* SAY, Long's Exped. Rocky Mts., vol. 2, p. 65.

1885. *Vespertilio subulatus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 603. 1885.

1897. [*Vespertilio gryphus*] var. *septentrionalis* TROUESSART, Catal. Mamm. viv. foss., pt. 1, p. 131. (Based on "Northern form of *Vespertilio gryphus*" of H. Allen, Monogr. North Amer. Bats (1893), p. 80, March 14, 1894.)

1897. *Myotis subulatus* MILLER, North Amer. Fauna, No. 13, p. 75. October 16, 1897.

TYPE LOCALITY.—Arkansas River, near La Junta, Otero County, Colorado.

RANGE.—North America east of the Rocky Mountains.

†*Myotis subulatus keenii (Merriam).

1895. *Vespertilio subulatus keenii* MERRIAM, Amer. Nat., vol. 19, p. 860. September, 1895.

1897. *Myotis subulatus keenii* MILLER, North Amer. Fauna, No. 13, p. 77. October 16, 1897.

TYPE LOCALITY.—Masset, Graham Island, Queen Charlotte Islands, British Columbia, Canada.

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***Myotis evotis** (H. Allen).

1864. *Vespertilio evotis* H. Allen, Monogr. Bats N. Amer., p. 48. June, 1864.

1885. *Vespertilio evotis* True, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 602. 1885.

1896. *Vespertilio chrysonotus* Allen, Bull. Amer. Mus. Nat. Hist., vol. 8, p. 240. November 21, 1896. (Kinney Ranch, Sweetwater County, Wyoming.)

1897. *Myotis evotis* Miller, North Amer. Fauna, No. 13, p. 77. October 16, 1897.

Type Locality.—Monterey, Monterey County, California.

Range.—Austral and Transition zones from the Pacific coast to the eastern edge of the Rocky Mountains; south to Vera Cruz, Mexico.

†*Myotis micronyx Nelson and Goldman.

1909. *Myotis micronyx* Nelson and Goldman, Proc. Biol. Soc. Washington, vol. 22, p. 28. March 10, 1909.

Type Locality.—Comondu, Lower California, Mexico.

***Myotis milleri** Elliot.

1903. *Myotis milleri* Elliot, Field Columb. Mus., publ. 74, zool. ser., vol. 3, p. 172. April, 1903.

Type Locality.—La Grulla, San Pedro Martir Mountains, Lower California, Mexico. Altitude, 8,000 feet.

†*Myotis thysanodes Miller.

1897. *Myotis thysanodes* Miller, North Amer. Fauna, No. 13, p. 80. October 16, 1897.

Type Locality.—Old Fort Tejon, in mountains south of Kern Lake, Kern County, California.

Range.—Lower Sonoran zone from near the southern border of the United States to San Luis Potosi and Michoacan, Mexico.

Genus PIZONYX Miller.

1906. *Pizonyx* Miller, Proc. Biol. Soc. Washington, vol. 19, p. 85. June 4, 1906. Type, *Myotis vivesi* Menegaux.

***Pizonyx vivesi** (Menegaux).

1901. *Myotis vivesi* Menegaux, Bull. mus. hist. nat. Paris, p. 323.

1906. *Pizonyx vivesi* Miller, Proc. Biol. Soc. Washington, vol. 19, p. 85. June 4, 1906.

Type Locality.—Islet of Cardonal or Islo, Archipelago of Salsi Puedes, Gulf of California, Mexico.

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Genus LASIONYCTERIS Peters.[1]

1866. *Lasionycteris* PETERS, Monatsber. k. preuss. Akad. Wissensch. Berlin (1865), p. 648. Type, *Vespertilio noctivagans* LECONTE.

***Lasionycteris noctivagans** (LeConte).

1831. *V[espertilio] noctivagans* LECONTE, McMurtrie's Cuvier, Animal Kingdom, vol. 1, p. 431.

1885. *Vesperugo noctivagans* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 602. 1885.

1894. *Lasionycteris noctivagans* H. ALLEN, Monogr. Bats N. Amer. (1893), p. 105. March 14, 1894.

TYPE LOCALITY.—Eastern United States.

RANGE.—North America north of Mexico, from the Atlantic to the Pacific; probably not breeding south of the transition zone.

Genus PIPISTRELLUS Kaup.[2]

1829. *Pipistrellus* KAUP, Skizzirte Entw.-Gesch. u. natürl. Syst. europ. Thierw., vol. 1, p. 98. Type, *Vespertilio pipistrellus* SCHREBER.

†*Pipistrellus hesperus hesperus (H. Allen).

1864. *Scotophilus hesperus* H. ALLEN, Monogr. Bats N. Amer., p. 43. June, 1864.

1885. *Vesperugo hesperus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 602. 1885.

†1886. *Vesperugo merriami* DOBSON, Ann. and Mag. Nat. Hist., ser. 5, vol. 18, p. 124. August, 1886. (Red Bluff, Tehama County, California.)

1897. *Pipistrellus hesperus* MILLER, North Amer. Fauna, No. 13, p. 88. October 16, 1897.

TYPE LOCALITY.—Old Fort Yuma, Imperial County, California.

RANGE.—Lower Austral zone in the western United States from southern and western Texas to the Pacific coast. Limits of range imperfectly known.

Pipistrellus hesperus apus Elliot.

1904. *Pipistrellus hesperus apus* ELLIOT, Field Columb. Mus., publ. 90, zool. ser., vol. 3, p. 269. March 8, 1904.

TYPE LOCALITY.—Providencia Mines, Sonora, Mexico.

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[1] Revised by Miller, North Amer. Fauna, No. 13, pp. 85-87, October 16, 1897.

[2] Revised by Miller, North Amer. Fauna, No. 13, pp. 87-95, October 16, 1897.

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†*Pipistrellus hesperus australis Miller.

1897. *Pipistrellus hesperus australis* MILLER, North Amer. Fauna, No. 13, p. 90. October 16, 1897.

TYPE LOCALITY.—Barranca Ibarra, State of Jalisco, Mexico.

*Pipistrellus subflavus subflavus (F. Cuvier).

1832. *V[espertilio] subflavus* F. CUVIER, Nouv. ann. mus. hist. nat. Paris, vol. 1, p. 17.

1885. *Vesperugo georgianus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 602. 1885.

1897. *Pipistrellus subflavus* MILLER, North Amer. Fauna, No. 13, p. 90. October 16, 1897.

TYPE LOCALITY.—Eastern United States, probably Georgia.

RANGE.—Austral zones and casually parts of Transition zone in the eastern United States, from the Atlantic coast west to Iowa and eastern and southern Texas.

†*Pipistrellus subflavus obscurus Miller.

1897. *Pipistrellus subflavus obscurus* MILLER, North Amer. Fauna, No. 13, p. 93. October 16, 1897.

TYPE LOCALITY.—Lake George, Warren County, New York.

RANGE.—Along border of Transition zone and upper Austral zone in central and eastern New York.

Pipistrellus versæcrucis (Ward).

1891. *Vesperugo versæcrucis* WARD, Amer. Nat., vol. 25, p. 745. August, 1891.

1897. *Pipistrellus versæcrucis* MILLER, North Amer. Fauna, No. 13, p. 93. October 16, 1897.

TYPE LOCALITY.—Las Vigas, Jalapa, State of Vera Cruz, Mexico.

†*Pipistrellus cinnamomeus Miller.

1902. *Pipistrellus cinnamomeus* MILLER, Proc. Acad. Nat. Sci. Philadelphia, p. 390. September 12, 1902.

TYPE LOCALITY.—Monte Christo, Tabasco, Mexico.

Genus EPTESICUS Rafinesque.[1]

1820. *Eptesicus* RAFINESQUE, Annals of nature, p. 2. Type, *Eptesicus melanops* RAFINESQUE = *Vespertilio fuscus* BEAUVOIS.

†*Eptesicus bahamensis (Miller).

1897. *Vespertilio fuscus bahamensis* MILLER, North Amer. Fauna, No. 13, p. 101. October 16, 1897.

TYPE LOCALITY.—Nassau, New Providence, Bahamas.

RANGE.—Bahama Islands.

[1] Revised (under the name *Vespertilio*) by Miller, North Amer. Fauna, No. 13, pp. 95–104, October 16, 1897.

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***Eptesicus cubensis** (Gray).

1839. *Scotophilus cubensis* GRAY, Ann. Nat. Hist., vol. 4, p. 7. September, 1839.

TYPE LOCALITY.—Cuba.

RANGE.—Cuba.

***Eptesicus fuscus fuscus** (Beauvois).

1796. *Vespertila* [sic] *fuscus* BEAUVOIS, Catalogue Peale's Museum, Philadelphia, p. 14.

1885. *Vesperugo serotinus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 602. 1885. (Part.)

1894. *Adelonycteris fuscus* H. ALLEN, Monogr. Bats N. Amer. (1893), p. 112. March 14, 1894.

1900. *Eptesicus fuscus* MÉHELY, Magyarország denevéreinek monographiája (Monographia Chiropterorum Hungariae), p. 206, 338.

TYPE LOCALITY.—Philadelphia, Pennsylvania.

RANGE.—Austral, Transition, and lower edge of Boreal zones throughout the greater part of the United States and adjoining British Provinces.

***Eptesicus fuscus osceola** Rhoads.

1902. *Eptesicus fuscus osceola* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, p. 618. February 6, 1902.

TYPE LOCALITY.—Tarpon Springs, Hillsboro County, Florida.

***Eptesicus fuscus melanopterus** Stone.

1904. *Eptesicus fuscus melanopterus* STONE, Proc. Acad. Nat. Sci. Philadelphia, p. 590. October 17, 1904.

TYPE LOCALITY.—Mount Tallac, Eldorado County, California.

***Eptesicus fuscus bernardinus** Rhoads.

1902. *Eptisicus fuscus bernardinus* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, p. 619. February 6, 1902.

TYPE LOCALITY.—Near San Bernardino, California.

***Eptesicus fuscus miradorensis** (H. Allen).

1866. *S[cotophilus] miradorensis* H. ALLEN, Proc. Acad. Nat. Sci. Philadelphia, p. 287.

1897. *Vespertilio fuscus miradorensis* MILLER, North Amer. Fauna, No. 13, p. 99. October 16, 1897.

TYPE LOCALITY.—Mirador, State of Vera Cruz, Mexico.

RANGE.—Costa Rica, Guatemala, and southern Mexico.

†*Eptesicus fuscus pallidus (Young).

1908. *Eptesicus pallidus* YOUNG, Proc. Acad. Nat. Sci. Philadelphia, p. 408. October 2, 1908.

TYPE LOCALITY.—Boulder, Boulder County, Colorado.

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***Eptesicus fuscus propinquus** (Peters).

1872. *Vesperus propinquus* PETERS, Monatsber. k. preuss. Akad. Wissensch. Berlin, p. 262.

1885. *Vesperugo propinquus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 602. 1885.

1897. *Vespertilio fuscus propinquus* MILLER, North Amer. Fauna, No. 13, p. 100. October 16, 1897.

TYPE LOCALITY.—Santa Isabel, Guatemala.

RANGE.—Guatemala and Nicaragua.

***Eptesicus fuscus peninsulæ** (Thomas).

1898. *Vespertilio fuscus peninsulæ* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 1, p. 43. January, 1898.

TYPE LOCALITY.—Sierra Laguna, Lower California, Mexico.

Eptesicus gaumeri (Allen).

1897. *Adelonycteris gaumeri* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 9, p. 231. September 28, 1897.

TYPE LOCALITY.—Izamal, Yucatan.

Genus NYCTERIS Borkhausen.[1]

1797. *Nycteris* BORKHAUSEN, Der Zoologe (Compendiose Bibliothek gemeinnützigsten Kenntnisse für alle Stände, pt. 21), Heft 4–7, p. 66. Type, *Vespertilio borealis* MÜLLER.

1831. *Lasiurus* GRAY, Zool. Miscell., No. 1, p. 38. Same type.

1909. *Nycteris* MILLER, Proc. Biol. Soc. Washington, vol. 22, p. 90. April 17, 1909.

***Nycteris borealis borealis** (Müller).

1776. *Vespertilio borealis* MÜLLER, Natursyst. Suppl., p. 21.

1885. *Atalapha noveboracensis* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 602. 1885.

(See p. 322; also note, p. 399.)

1910. *Nycteris borealis* HOLLISTER, Bull. Wisconsin Nat. Hist. Soc., vol. 8, No. 1, p. 30, May, 1910.

TYPE LOCALITY.—New York.

RANGE.—Boreal, Transition, and Austral zones in eastern North America from Canada to Florida and Texas; west at least to Indian Territory and Colorado.

***Nycteris borealis seminola** (Rhoads).

1895. *Atalapha borealis seminola* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, p. 32. March 19, 1895.

TYPE LOCALITY.—Tarpon Springs, Hillsboro County, Florida.

RANGE.—Lower Austral and Tropical zones from South Carolina to southern Texas.

[1] Revised (under name *Lasiurus*) by Miller, North Amer. Fauna, No. 13, pp. 105–115, October 16, 1897.

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***Nycteris borealis pfeifferi** (Gundlach).

1861. *Atalapha pfeifferi* GUNDLACH, Monatsber. k. preuss. Akad. Wissensch. Berlin, p. 152.

1897. *Lasiurus borealis pfeifferi* MILLER, North Amer. Fauna, No. 13, p. 110. October 16, 1897.

TYPE LOCALITY.—Cuba.

RANGE.—Cuba; also Jamaica and the Bahamas?.

†*Nycteris borealis teliotis (H. Allen).

1891. *Atalapha teliotis* H. ALLEN, Proc. Amer. Philos. Soc., vol. 29, p. 5. April 10, 1891.

TYPE LOCALITY.—Unknown, probably some part of California.

RANGE.—From the head of Sacramento Valley, California, south to Comondu, Lower California.

***Nycteris borealis mexicana** (Saussure).

1861. *A[talapha] mexicana* SAUSSURE, Revue et magasin de zoologie, ser. 2, vol. 13, p. 97. March, 1861.

1897. *Lasiurus borealis mexicanus* MILLER, North Amer. Fauna, No. 13, p. 111. October 16, 1897.

TYPE LOCALITY.—Probably in Vera Cruz, Puebla, or Oaxaca, Mexico.

RANGE.—Central America and southern Mexico.

***Nycteris cinerea** (Beauvois).

1796. *Vespertilio cinereus* BEAUVOIS, Catalogue Peale's Museum, Philadelphia, p. 15.

1885. *Atalapha cinerea* TRUE, Proc. U. S. Nat. Mus., vol. 7, (1884), p. 602. 1885.

1910. *Nycteris cinereus* HOLLISTER, Bull. Wisconsin Nat. Hist. Soc., vol. 8, No. 1, p. 30. May, 1910.

TYPE LOCALITY.—Philadelphia, Pennsylvania.

RANGE.—Boreal North America from Atlantic to Pacific, breeding within the Boreal Zone, but in autumn and winter migrating at least to southern border of United States.

Genus DASYPTERUS Peters.[1]

1871. *Dasypterus* PETERS, Monatsber. k. preuss. Akad. Wissensch. Berlin (1870), p. 912. Type, *Lasiurus intermedius* H. ALLEN.

[1] Revised by Miller, North Amer. Fauna, No. 13, pp. 115–118, October 16, 1897.

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***Dasypterus intermedius** (H. Allen).

1862. *Lasiurus intermedius* H. ALLEN, Proc. Acad. Nat. Sci. Philadelphia, p. 246.

1885. *Atalapha intermedia* TRUE, Proc. U. S. Nat. Mus., vol. 7, (1884), p. 602. 1885.

1894. *Dasypterus intermedius* H. ALLEN, Monogr. Bats N. Amer. (1893), p. 137. March 14, 1894.

TYPE LOCALITY.—Matamoras, State of Tamaulipas, Mexico.

RANGE.—Mexico from Chiapas north to extreme southern Texas.

†*Dasypterus floridanus Miller.

1902. *Dasypterus floridanus* MILLER, Proc. Acad. Nat. Sci. Philadelphia, p. 392. September 12, 1902.

TYPE LOCALITY.—Lake Kissimmee, Florida.

RANGE.—Florida and Gulf coast west to Louisiana.

***Dasypterus ega panamensis** Thomas.

1901. *Dasypterus ega panamensis* THOMAS, Ann. and Mag. Nat. Hist. ser. 7, vol. 8, p. 246. September, 1901.

TYPE LOCALITY.—Bogava, Chiriqui, Panama.

RANGE.—Panama and Yucatan.

***Dasypterus ega xanthinus** Thomas.

1897. *Dasypterus ega xanthinus* THOMAS, Ann. and Mag. Nat. Hist., ser. 6, vol. 20, p. 544. December, 1897.

TYPE LOCALITY.—Sierra Laguna, Lower California, Mexico.

Genus NYCTICEIUS Rafinesque.[1]

1819. *Nycticeius* RAFINESQUE, Journ. de physique, vol. 88, p. 417. June, 1819. Type, *Vespertilio humeralis* RAFINESQUE.

***Nycticeius humeralis** (Rafinesque).

1818. *Vespertilio humeralis* RAFINESQUE, American Monthly Magazine, vol. 3, p. 445. October, 1818.

1819. *N[ycticeius] humeralis* RAFINESQUE, Journ. de physique, vol. 88, p. 417. June, 1819.

1885. *Nycticejus crepuscularis* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 602. 1885.

1891. *Nycticejus humeralis* THOMAS, Ann. and Mag. Nat. Hist., ser. 6, vol. 7, p. 528. June, 1891.

TYPE LOCALITY.—Kentucky.

RANGE.—Austral zones in the eastern United States, west to Arkansas and southern Texas.

[1] Revised by Miller, North Amer. Fauna, No. 13, pp. 118-121, October 16, 1897.

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***Nycticeius cubanus** (Gundlach).

1861. *Vesperus cubanus* GUNDLACH, Monatsber. k. preuss. Akad. Wissensch. Berlin, p. 150.

1904. *Nycticeius cubanus* MILLER, Proc. U. S. Nat. Mus., vol. 27, p. 338. January 23, 1904.

TYPE LOCALITY.—Near Cardenas, Cuba.

RANGE.—Cuba.

Genus RHOGEËSSA H. Allen.[1]

1866. *Rhogeëssa* H. ALLEN, Proc. Acad. Nat. Sci. Philadelphia, p. 285. Type, *Rhogeëssa tumida* H. ALLEN.

†*Rhogeëssa tumida H. Allen.

1866. *Rhogeëssa tumida* H. ALLEN, Proc. Acad. Nat. Sci. Philadelphia, p. 286.

1885. *Vesperugo parvulus* TRUE, Proc. U. S. Nat. Mus., vol. 7, (1884), p. 602. 1885.

1897. *Rhogeëssa tumida* MILLER, North Amer. Fauna, No. 13, p. 123. October 16, 1897.

TYPE LOCALITY.—Mirador, State of Vera Cruz, Mexico.

RANGE.—Central America and southern Mexico.

***Rhogeëssa parvula** H. Allen.

1866. *Rhogeëssa parvula* H. ALLEN, Proc. Acad. Nat. Sci. Philadelphia, p. 285.

1897. *Rhogeëssa parvula* MILLER, North Amer. Fauna, No. 13, p. 125. October 16, 1897.

TYPE LOCALITY.—Tres Marias Islands, State of Jalisco, Mexico.

RANGE.—Tres Marias Islands.

†*Rhogeëssa gracilis Miller.

1897. *Rhogeëssa gracilis* MILLER, North Amer. Fauna, No. 13, p. 126. October 16, 1897.

TYPE LOCALITY.—Piaxtla, State of Puebla, Mexico.

RANGE.—Southern Mexico.

Genus BÆODON Miller.

1906. *Bæodon* MILLER, Proc. Biol. Soc. Washington, vol. 19, p. 85. June 4, 1906. Type, *Rhogeëssa alleni* THOMAS.

Bæodon alieni (Thomas).

1892. *Rhogeëssa alleni* THOMAS, Ann. and Mag. Nat. Hist., ser. 6, vol. 10, p. 477. December, 1892.

1906. *Bæodon alleni* MILLER, Proc. Biol. Soc. Washington, vol. 19, p. 85. June 4, 1906.

TYPE LOCALITY.—Santa Rosalia, near Autlan, State of Jalisco, Mexico.

RANGE.—Southern Mexico.

[1] Revised by Miller, North Amer. Fauna, No. 13, pp. 122–129, October 16, 1897.

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Genus EUDERMA H. Allen.[1]

1892. *Euderma* H. ALLEN, Proc. Acad. Nat. Sci. Phila. (1891), p. 467. January 19, 1892. Type, *Histiotus maculatus* ALLEN.

***Euderma maculatum** (Allen).

1891. *Histiotus maculatus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 195. February 20, 1891.

1894. *Euderma maculata* H. ALLEN, Monogr. Bats N. Amer. (1893), p. 61. March 14, 1894.

TYPE LOCALITY.—Near Piru, Ventura County, California. Other known localities: Mesilla Park, New Mexico (Miller, Proc. Biol. Soc. Washington, vol. 16, p. 165, November 30, 1903); Yuma, Arizona (Stephens, California Mammals, p. 264, 1906); and Mecca, Riverside County, California (Grinnell, Univ. Calif. Publ. Zool., vol. 5, p. 317, February 21, 1910).

Genus CORYNORHINUS H. Allen.[2]

1865. *Corynorhinus* H. ALLEN, Proc. Acad. Nat. Sci. Philadelphia, p. 173. Type, *Plecotus macrotis* LECONTE.

***Corynorhinus macrotis macrotis** (LeConte).

1831. *Plec[otus] macrotis* LECONTE, McMurtrie's Cuvier, Animal Kingdom, vol. 1, p. 431.

1865. *C[orynorhinus] macrotis* H. ALLEN, Proc. Acad. Nat. Sci. Philadelphia, p. 174.

TYPE LOCALITY.—Georgia; probably the LeConte plantation, near Riceboro, Liberty County.

RANGE.—Lower Austral zone in the eastern United States.

Inadvertently omitted from True's list.

†*Corynorhinus macrotis pallescens Miller.

1897. *Corynorhinus macrotis pallescens* MILLER, North Amer. Fauna, No. 13, p. 52. October 16, 1897.

TYPE LOCALITY.—Keam Canyon, Navajo County, Arizona.

RANGE.—Austral zones from California, Colorado, and western Texas to southern Mexico.

***Corynorhinus macrotis townsendii** (Cooper).

1848. *Plecotus townsendii* COOPER, Ann. Lyc. Nat. Hist. New York, vol. 4, p. 73.

1897. *Corynorhinus macrotis townsendii* MILLER, North Amer. Fauna, No. 13, p. 53. October 16, 1897.

TYPE LOCALITY.—Columbia River, Oregon.

RANGE.—Humid coast district of Oregon, Washington, and southern British Columbia.

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[1] Revised by Miller, North Amer. Fauna, No. 13, pp. 46–49, October 16, 1897.

[2] Revised by Miller, North Amer. Fauna, No. 13, pp. 49–54, October 16, 1897.

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Subfamily NYCTOPHILINÆ.

Genus ANTROZOUS H. Allen.[1]

1862. *Antrozous* H. ALLEN, Proc. Acad. Nat. Sci. Philadelphia, p. 248. Type, *Vespertilio pallidus* LECONTE.

†***Antrozous pallidus pallidus** (LeConte).

1856. *V[espertilio] pallidus* LECONTE, Proc. Acad. Nat. Sci. Philadelphia, vol. 7, p. 437.

1864. *Antrozous pallidus* H. ALLEN, Monogr. Bats N. Amer., p. 68. June, 1864.

1885. *Antrozous pallidus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 602. 1885. (Part.)

TYPE LOCALITY.—El Paso, El Paso County, Texas.

RANGE.—Lower Austral zone in desert region of eastern California, Nevada, Arizona, New Mexico, and western Texas.

†***Antrozous pallidus pacificus** Merriam.

1897. *Antrozous pallidus pacificus* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 180. July 1, 1897.

TYPE LOCALITY.—Old Fort Tejon, in mountains south of Kern Lake, Kern County, California.

RANGE.—Austral zones of the western United States and northwestern Mexico.

†***Antrozous minor** Miller.

1902. *Antrozous minor* MILLER, Proc. Acad. Nat. Sci. Philadelphia, p. 389. September 12, 1902.

TYPE LOCALITY.—Comondu, Lower California, Mexico.

Family MOLOSSIDÆ.

Molossops planirostris PETERS.

Genus NYCTINOMUS Geoffroy.

1818. *Nyctinomus* GEOFFROY, Description de l'Égypte, vol. 2, mammifères, p. 114. Type, *Nyctinomus ægyptiacus* GEOFFROY.

†***Nyctinomus antillularum** Miller.

1902. *Nyctinomus antillularum* MILLER, Proc. Acad. Nat. Sci. Philadelphia, p. 398. September 12, 1902.

TYPE LOCALITY.—Roseau, Dominica, Lesser Antilles.

***Nyctinomus bahamensis** Rehn.

1902. *Nyctinomus bahamensis* REHN, Proc. Acad. Nat. Sci. Philadelphia, p. 641. December 12, 1902.

TYPE LOCALITY.—Governor's Harbor, Eleuthera, Bahamas.

[1] Revised by Miller, North Amer. Fauna, No. 13, pp. 42–46, October 16, 1897.

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***Nyctinomus brasiliensis** I. Geoffroy.

1824. *Nyctinomus brasiliensis* I. GEOFFROY, Ann. Sci. Nat., vol. 1, p. 343.

TYPE LOCALITY.—Brazil. (Probably ranges north to Central America.)

†*Nyctinomus cynocephalus (LeConte).

1831. *Nyct[icea] cynocephala* LECONTE, McMurtrie's Cuvier, Animal Kingdom, vol. 1, p. 432.

1885. *Nyctinomus brasiliensis* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 603. 1885. (Part.)

1898. *Nyctinomus cynocephalus* MILLER, Proc. Boston Soc. Nat. Hist., vol. 28, p. 218. March, 1898.

TYPE LOCALITY.—Georgia; probably the LeConte plantation, near Riceboro, Liberty County.

***Nyctinomus depressus** Ward.

1891. *Nyctinomus depressus* WARD, Amer. Nat., vol. 25, p. 747. August, 1891.

TYPE LOCALITY.—Tacubaya, Federal District, Mexico.

†*Nyctinomus femorosaccus Merriam.

1889. *Nyctinomus femorosaccus* MERRIAM, North Amer. Fauna, No. 2, p. 23. October 30, 1889.

TYPE LOCALITY.—Agua Caliente, Colorado Desert, California.

***Nyctinomus gracilis** (Wagner).

1843. *Dysopes gracilis* WAGNER, Wiegmann's Arch. f. Naturg., IX, vol. 1, p. 368.

1865. *Nyctinomus gracilis* PETERS, Monatsber. k. preuss. Akad. Wissensch. Berlin, p. 573.

1885. *Nyctinomus gracilis* TRUE, Proc. U. S. Nat. Mus., vol. 7, (1884), p. 603. 1885.

TYPE LOCALITY.—Cuyaba, Matto Grosso, Brazil. (Ranges north to Central America.)

***Nyctinomus macrotis** Gray.

1839. *Nyctinomus macrotis* GRAY, Ann. Nat. Hist., vol. 4, p. 5. September, 1839.

1885. *Nyctinomus macrotis* TRUE, Proc. U. S. Nat. Mus., vol. 7, (1884), p. 603. 1885.

TYPE LOCALITY.—Interior of Cuba.

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***Nyctinomus mexicanus** (Saussure).

1860. *Molossus mexicanus* SAUSSURE, Revue et magasin de zoologie, ser. 2, vol. 12, p. 283. July, 1860.

†1889. *Nyctinomus mohavensis* MERRIAM, North Amer. Fauna, No. 2, p. 25. October 30, 1889. (Fort Mohave, Mohave County, Arizona.)

1894. *Nyctinomus brasiliensis californicus* H. ALLEN, Monogr. Bats N. Amer. (1893), p. 166. March 14, 1894. (California.)

1905. *Nyctinomus mexicanus* BAILEY, North Amer. Fauna, No. 25, p. 215. October 24, 1905.

TYPE LOCALITY.—Ameca, Jalisco, Mexico.

***Nyctinomus musculus** Gundlach.

1861. *Nyctinomus musculus* GUNDLACH, Monatsber. k. preuss. Akad. Wissensch. Berlin, p. 149.

1902. *Nyctinomus musculus* MILLER, Proc. Biol. Soc. Washington, vol. 15, p. 248. December 16, 1902.

TYPE LOCALITY.—Cuba.

†***Nyctinomus nevadensis** (H. Allen).

1894. *Nyctinomus macrotis nevadensis* H. ALLEN, Monogr. Bats N. Amer. (1893), p. 171. March 14, 1894.

1894. *Nyctinomus nevadensis* J. A. ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 6, p. 326. November 7, 1894.

TYPE LOCALITY.—California. (See J. A. Allen, Bull. Amer. Mus. Nat. Hist., vol. 6, p. 326, footnote. November 7, 1894.)

†***Nyctinomus orthotis** H. Allen.

1889. *Nyctinomus orthotis* H. ALLEN, Proc. Amer. Philos. Soc., vol. 26, p. 561. December 18, 1889.

TYPE LOCALITY.—Spanishtown, Jamaica.

†***Nyctinomus yucatanicus** Miller.

1902. *Nyctinomus yucatanicus* MILLER, Proc. Acad. Nat. Sci. Philadelphia, p. 393. September 12, 1902.

TYPE LOCALITY.—Chichenitza, Yucatan.

Genus MORMOPTERUS Peters.

1865. *Mormopterus* PETERS, Monatsber. k. preuss. Akad. Wissensch., Berlin, p. 258. Type, *Nyctinomus jugularis* PETERS.

Mormopterus minutus (Miller).

1899. *Nyctinomus minutus* MILLER, Bull. Amer. Mus. Nat. Hist., vol. 12, p. 173. October 20, 1899.

1907. *M[ormopterus] minutus* MILLER, Families and Genera of Bats, p. 254. June 29, 1907.

TYPE LOCALITY.—Trinidad, Cuba.

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Genus PROMOPS Gervais.

1855. *Promops* GERVAIS, Expéd. du Comte de Castelnau, zool., mamm., p. 58. Type, *Promops ursinus* GERVAIS = *Molossus nasutus* SPIX.

***Promops nasutus** (Spix).

1823. *Molossus nasutus* SPIX, Simiar. et Vespert. Brasil., p. 60.
1885. *Molossus nasutus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 603. 1885.
1900. *Promops nasutus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 13, p. 93. May 12, 1900.
TYPE LOCALITY.—Near the Rio São Francisco, Brazil. (Ranges north to Central America.)

Genus EUMOPS Miller.

1906. *Eumops* MILLER, Proc. Biol. Soc. Washington, vol. 19, p. 85. June 4, 1906. Type, *Molossus californicus* MERRIAM.

***Eumops abrasus** (Temminck).

1827. *Dysopes abrasus* TEMMINCK, Monogr. Mamm., vol. 1, p. 232.
1885. *Molossus abrasus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 603. 1885.
1906. *Eumops abrasus* MILLER, Proc. Biol. Soc. Washington, vol. 19, p. 85. June 4, 1906.
TYPE LOCALITY.—Interior of Brazil. (Ranges north to Guatemala.)

†*Eumops californicus (Merriam).

1890. *Molossus californicus* MERRIAM, North Amer. Fauna, No. 4, p. 31. October 8, 1890.
1906. *E[umops] californicus* MILLER, Proc. Biol. Soc. Washington, vol. 19, p. 85. June 4, 1906.
TYPE LOCALITY.—Alhambra, Los Angeles County, California.

***Eumops nanus** (Miller).

1900. *Promops nanus* MILLER, Ann. and Mag. Nat. Hist., ser. 7, vol. 6, p. 470. November, 1900.
1906. *E[umops] nanus* MILLER, Proc. Biol. Soc. Washington, vol. 19, p. 85. June 4, 1906.
TYPE LOCALITY.—Bogava, Chiriqui, Panama. Altitude, 800 feet.

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Genus MOLOSSUS Geoffroy.

1805. *Molossus* GEOFFROY, Ann. mus. hist. nat. Paris, vol. 6, p. 151. Type, *Molossus rufus* GEOFFROY.

***Molossus crassicaudatus** Geoffroy.

1805. *Molossus crassicaudatus* GEOFFROY, Ann. mus. hist. nat. Paris, vol. 6, p. 156.

TYPE LOCALITY.—Paraguay. (Ranges north to Panama and the Lesser Antilles. See G. M. Allen, Bull. Mus. Comp. Zool., vol. 52, p. 59, July, 1908.)

†*Molossus nigricans Miller.

1885. *Molossus rufus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 603. 1885. (Part.)

1902. *Molossus nigricans* MILLER, Proc. Acad. Nat. Sci. Philadelphia, p. 395. September 12, 1902.

TYPE LOCALITY.—Acaponeta, Tepic, Mexico.

***Molossus sinaloæ** Allen.

1906. *Molossus sinaloæ* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 22, p. 236. July 25, 1906.

TYPE LOCALITY.—Escuinapa, Sinaloa, Mexico.

***Molossus obscurus** Geoffroy.

1805. *Molossus obscurus* GEOFFROY, Ann. mus. hist. nat. Paris, vol. 6, p. 155.

TYPE LOCALITY.—Surinam (see G. M. Allen, Bull. Mus. Comp. Zool., vol. 52, p. 58, July, 1908). Ranges north to Mexico and the Lesser Antilles.

***Molossus coibensis** Allen.

1904. *Molossus coibensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 20, p. 227. June 29, 1904.

TYPE LOCALITY.—Coiba Island, Panama.

***Molossus tropidorhynchus** Gray.

1839. *Molossus tropidorhynchus* GRAY, Ann. Nat. Hist., vol. 4, p. 6. September, 1839.

1904. *Molossus tropidorhynchus* MILLER, Proc. U. S. Nat. Mus., vol. 27, p. 339. January 23, 1904.

TYPE LOCALITY.—Cuba.

Molossus verrilli Allen.

1908. *Molossus verrilli* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 24, p. 581. September 11, 1908.

TYPE LOCALITY.—Samana, Santo Domingo.

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Order CARNIVORA.

Family URSIDÆ.

Genus URSUS Linnæus.

1758. *Ursus* LINNÆUS, Syst. nat., ed. 10, vol. 1, p. 47. Type, *Ursus arctos* LINNÆUS.

Subgenus URSUS Linnæus.

(For synonym see page 400.)

†*Ursus dalli dalli Merriam.

1896. *Ursus dalli* MERRIAM, Proc. Biol. Soc. Washington, vol. 10, p. 71. April 13, 1896.

TYPE LOCALITY.—Yakutat Bay, Alaska.

†*Ursus dalli gyas Merriam.

1902. *Ursus dalli gyas* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 78. March 22, 1902.

TYPE LOCALITY.—Pavlof Bay, Alaska Peninsula, Alaska.

†*Ursus eulophus Merriam.

1904. *Ursus eulophus* MERRIAM, Proc. Biol. Soc. Washington, vol. 17, p. 153. October 6, 1904.

TYPE LOCALITY.—Admiralty Island, Alaska.

*Ursus horribilis horribilis Ord.

1815. *Ursus horribilis* ORD, Guthrie's geography, 2d Amer. ed., vol. 2, p. 291, described on p. 299.

1885. *Ursus horribilis* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 608. 1885. (Part.)

TYPE LOCALITY.—Great Falls, Cascade County, Montana.

†*Ursus horribilis alascensis Merriam.

1896. *Ursus horribilis alascensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 10, p. 74. April 13, 1896.

TYPE LOCALITY.—Norton Sound, Alaska.

†*Ursus horribilis californicus Merriam.

1896. [*Ursus horribilis*] subspecies *californicus* MERRIAM, Proc. Biol. Soc. Washington, vol. 10, p. 76. April 13, 1896.

TYPE LOCALITY.—Monterey, Monterey County, California.

†*Ursus horribilis horriæus Baird.

1857. *U[rsus] horribilis* var. *horriæus* BAIRD, Mamm. N. Amer. p. 224.

1896. *Ursus horribilis horriæus* MERRIAM, Proc. Biol. Soc. Washington, vol. 10, p. 75. April 13, 1896.

TYPE LOCALITY.—Old copper mines near present town of Georgetown, Grant County, New Mexico.

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†*Ursus horribilis phæonyx Merriam.

1904. *Ursus horribilis phæonyx* MERRIAM, Proc. Biol. Soc. Washington, vol. 17, p. 154. October 6, 1904.

TYPE LOCALITY.—Comet Creek (5 miles below head), a tributary of Forty Mile Creek, near Eagle, Alaska.

†*Ursus kenaiensis Merriam.

1904. *Ursus kenaiensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 17, p. 154. October 6, 1904.

TYPE LOCALITY.—Cape Elizabeth, extreme west end of Kenai Peninsula, Alaska.

†*Ursus kidderi Merriam.

1902. *Ursus kidderi* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 78. March 22, 1902.

TYPE LOCALITY.—Chinitna Bay, Cook Inlet, Alaska.

*Ursus merriami Allen.

1902. *Ursus merriami* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 16, p. 141. April 12, 1902.

TYPE LOCALITY.—Portage Bay, opposite Port Muller, Alaska Peninsula, Alaska.

†*Ursus middendorffi Merriam.

1896. *Ursus middendorffi* MERRIAM, Proc. Biol. Soc. Washington, vol. 10, p. 69. April 13, 1896.

TYPE LOCALITY.—Kodiak Island, Alaska.

*Ursus richardsoni Swainson.

1838. *Ursus richardsoni* SWAINSON, Anim. in menageries, p. 54.

1885. *Ursus richardsoni* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 608. 1885.

TYPE LOCALITY.—Shore of the Arctic Ocean, Mackenzié, Canada.

†*Ursus sitkensis Merriam.

1896. *Ursus sitkensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 10, p. 73. April 13, 1896.

TYPE LOCALITY.—Near Sitka, Alaska.

†*Ursus sheldoni Merriam.

1910. *Ursus sheldoni* MERRIAM, Proc. Biol. Soc. Washington, vol. 23, p. 127. September 2, 1910.

TYPE LOCALITY.—Montague Island, Alaska.

Subgenus EUARCTOS Gray.

1864. *Euractos* GRAY, Proc. Zool. Soc. London, p. 692. Type, *Ursus americanus* PALLAS.

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***Ursus altifrontalis** Elliot.

1903. *Ursus altifrontalis* ELLIOT, Field Columb. Mus., publ. 80, zool. ser., vol. 3, p. 234. June, 1903.

TYPE LOCALITY.—Lake Crescent, Clallam County, Washington.

***Ursus americanus americanus** Pallas.

1780. *Ursus americanus* PALLAS, Spicilegia zoologica, fasc. 14, p. 5.

1885. *Ursus americanus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 608. 1885.

1898. *Ursus (Euarctos) americanus sornborgeri* BANGS, Amer. Nat., vol. 32, p. 500. July, 1898. Okak, Labrador. (See Bangs, in Grenfell's Labrador, the Country and the People, p. 467, 1909, and Allen, Bull. Amer. Mus. Nat. Hist., vol. 27, pp. 1–5, January 5, 1910.)

TYPE LOCALITY.—Eastern North America.

†*Ursus americanus amblyceps (Baird).

1859. *Ursus amblyceps* BAIRD, Rep. U. S. and Mex. Bound. Surv., vol. 2, pt. 2, p. 29. January, 1859.

1909. *Ursus americanus amblyceps* BAILEY, North Amer. Fauna, No. 25, p. 187. October 24, 1905.

TYPE LOCALITY.—Copper mines on the Gila River, Arizona.

†*Ursus americanus eremicus Merriam.

1904. *Ursus americanus eremicus* MERRIAM, Proc. Biol. Soc. Washington, vol. 17, p. 154, October 6, 1904.

TYPE LOCALITY.—Sierra Guadalupe, Coahuila, Mexico.

***Ursus americanus perniger** Allen.

1910. *Ursus americanus kenaiensis* ALLEN, Bull Amer. Mus. Nat. Hist., vol. 28, p. 6, January 5, 1910. (Not *U. kenaiensis* Merriam, 1904.)

1910. *Ursus americanus perniger* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 28, p. 115. April 30, 1910. (Substitute for *kenaiensis* Allen.)

TYPE LOCALITY.—Homer, Kenai Peninsula, Alaska.

Ursus americanus pugnax Swarth.

1911. *Ursus americanus pugnax* SWARTH, Univ. California Publ. Zool., vol. 7, p. 141. January 12, 1911.

TYPE LOCALITY.—Rocky Bay, Dall Island, Alaska.

†*Ursus carlottæ Osgood.

1901. *Ursus (Euarctos) carlottæ* OSGOOD, North Amer. Fauna, No. 21, p. 30. September 26, 1901.

TYPE LOCALITY.—Massett, Graham Island, Queen Charlotte Islands, British Columbia.

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***Ursus cinnamomum** (Audubon and Bachman).

1854. *Ursus americanus* var. *cinnamomum* AUDUBON and BACHMAN, Quadr. N. Amer., vol. 3, p. 125.

1893. *Ursus cinnamomeus* BROWN, Forest and Stream, vol. 41, p. 519. December 16, 1893 (part).

TYPE LOCALITY.—Northern Rocky Mountains. (See Merriam, Proc. Biol. Soc. Washington, vol. 8, p. 151, December 29, 1893.)

***Ursus emmonsii** (Dall).

1895. [*Ursus americanus*] var. *emmonsii* DALL, Science, n. s., vol. 2, p. 87. July 26, 1895.

1896. *Ursus emmonsi* MERRIAM, Proc. Biol. Soc. Washington, vol. 10, p. 82. April 13, 1896.

1897. *Ursus glacilis* (sic) KELLS, Canadian natural science News, vol. 1, p. 12. April, 1897. (Mt. Saint Elias, Alaska.)

TYPE LOCALITY.—Saint Elias Alps, near Yakutat Bay, Alaska.

†*Ursus floridanus Merriam.

1896. *Ursus floridanus* MERRIAM, Proc. Biol. Soc. Washington, vol. 10, p. 81. April 13, 1896.

TYPE LOCALITY.—Key Biscayne, Dade County, Florida.

***Ursus hylodromus** Elliot.

1903. *Ursus hylodromus* ELLIOT, Field Columb. Mus., publ. 87, zool. ser., vol. 3, p. 257. December, 1903.

TYPE LOCALITY.—Alberta, Canada.

Ursus kermodei Hornaday.

1905. *Ursus kermodei* HORNADAY, Ninth Annual Report N. Y. Zool. Soc., p. 6.

TYPE LOCALITY.—Gribble Island, British Columbia, Canada.

***Ursus luteolus** Griffith.

1821. *Ursus luteolus* GRIFFITH, Carnivorous Animals, p. 236.

1893. *Ursus luteolus* MERRIAM, Proc. Biol. Soc. Washington, vol. 8, p. 147. December 29, 1893.

TYPE LOCALITY.—Louisiana.

***Ursus machetes** Elliot.

1903. *Ursus machetes* ELLIOT, Field Columb. Mus., publ. 80, zool. ser., vol. 3, p. 235. June, 1903.

TYPE LOCALITY.—Casa Grande, Sierra Madre, Chihuahua, Mexico.

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Genus THALARCTOS Gray.[1]

1825. *Thalarctos* GRAY, Ann. of Philos., n. s., vol. 10. p. 62. Type, *Thalarctos polaris* GRAY=*Ursus maritimus* PHIPPS.

***Thalarctos maritimus ungavensis** Knottnerus-Meyer.

1885. *Thalassarctos maritimus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 608. 1885. (Part.)

1908. [*Thalassarctos maritimus*] var. *ungavensis* KNOTTNERUS-MEYER, Sitz.-Ber. Gesellsch. naturf. Freunde, Berlin, p. 181. July, 1908.

TYPE LOCALITY.—Ungava Bay, Ungava, Canada.

***Thalarctos eogrœnlandicus** Knottnerus-Meyer.

1908. *Thalassarctos eogrœnlandicus* KNOTTNERUS-MEYER, Sitz.-Ber. Gesellsch. naturf. Freunde, Berlin, p. 182. July, 1908.

TYPE LOCALITY.—Pack ice off coast of eastern Greenland.

Thalarctos labradorensis Knottnerus-Meyer.

1908. *Thalassarctos labradorensis* KNOTTNERUS-MEYER, Sitz.-Ber. Gesellsch. naturf. Freunde, Berlin, p. 183. July, 1908.

TYPE LOCALITY.—Okak, Labrador.

Family CANIDÆ.

Genus CANIS Linnæus.

1758. *Canis* LINNÆUS, Syst. Nat., ed. 10, vol. 1, p. 38. Type, *Canis familiaris* LINNÆUS.

Subgenus CANIS Linnæus.

†*Canis floridanus Miller.

1912. *Canis floridanus* MILLER, Proc. Biol. Soc. Washington, vol. 25, p. 95. May 4, 1912.

TYPE LOCALITY.—Horse Landing, about 12 miles south of Palatka, Putnam County, Florida.

†*Canis frustror Woodhouse.

1851. *Canis frustror* WOODHOUSE, Proc. Acad. Nat. Sci. Philadelphia, vol. 5, p. 147.

1905. [*Canis*] *frustror* BAILEY, North Amer. Fauna, No. 25, p. 175. October 24, 1905.

TYPE LOCALITY.—About 100 miles west of Fort Gibson, probably in Payne County, Oklahoma.

[1] Revised by Knottnerus-Meyer, Sitz.-Ber. Gesellsch. naturf. Freunde, Berlin, 1908, pp. 170-187, July, 1908.

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***Canis gigas** (Townsend).

1850. *Lupus gigas* TOWNSEND, Journ. Acad. Nat. Sci. Philadelphia, vol. 2, p. 75. November, 1850.

1912. *Canis gigas* MILLER, Smiths. Misc. Coll., vol. 59, No. 15, p. 4. June 8, 1912.

TYPE LOCALITY.—Near Vancouver, Clark County, Washington.

***Canis lycaon** Schreber.

1776. *Canis lycaon* SCHREBER, Säugthiere, pl. 89.

1912. *Canis lycaon* MILLER, Proc. Biol. Soc. Washington, vol. 25, p. 95. May 4, 1912.

TYPE LOCALITY.—Eastern Canada.

***Canis mexicanus** Linnæus.

1766. [*Canis*] *mexicanus* LINNÆUS, Syst. Nat., ed. 12, vol. 1, p. 60.

1894. *Canis mexicanus* RHOADS, Amer. Nat., vol. 28, p. 524. June, 1894.

TYPE LOCALITY.—Southern Mexico.

***Canis nubilus** (Say).

1823. *Canis nubilus* SAY, Long's Exped. Rocky Mts., vol. 1, p. 169.

1885. *Canis lupus griseo-albus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 610. 1885. (Part.)

1894. *Canis mexicanus nubilus* RHOADS, Amer. Nat., vol. 28, p. 524. June, 1894.

TYPE LOCALITY.—Engineer Cantonment, near present town of Blair, Washington County, Nebraska.

***Canis occidentalis** (Richardson).

1829. *Canis lupus, occidentalis* RICHARDSON, Fauna Boreali-Americana, vol. 1, p. 60.

1912. *Canis occidentalis* MILLER, Smiths. Misc. Coll., vol. 59, No. 15, p. 4. June 8, 1912.

TYPE LOCALITY.—Canada from the plains of the Saskatchewan to the Arctic coast. Name restricted by Miller to the form occurring at Fort Simpson, Mackenzie.

***Canis pambasileus** Elliot.

1905. *Canis pambasileus* ELLIOT, Proc. Biol. Soc. Washington, vol. 18, p. 79. February 21, 1905.

TYPE LOCALITY.—Sushitna River, region of Mount McKinley, Alaska.

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***Canis rufus** (Audubon and Bachman).

1851. *Canis lupus* var. *rufus* AUDUBON and BACHMAN, Quadr. N. Amer., vol. 2, p. 240.

1905. *Canis rufus* BAILEY, North Amer. Fauna, No. 25, p. 174. October 24, 1905.

TYPE LOCALITY.—Texas.

RANGE.—According to Bailey, the whole of southern Texas north to the mouth of the Pecos and the mouth of the Colorado, and still farther north along the strip of mesquite country east of the plains.

†*Canis tundrarum Miller.

1823. ?*Canis lupus—albus* SABINE, Franklin's Narr. Journ. Polar Sea, p. 655. (Not of Kerr, 1791.)

1908. *Canis occidentalis albus* PREBLE, North Amer. Fauna, No. 27, p. 213. October 26, 1908.

1912. *Canis tundrarum* MILLER, Smiths. Misc. Coll., vol. 59, No. 15, p. 1. June 8, 1912.

TYPE LOCALITY.—Point Barrow, Alaska.

Subgenus LYCISCUS Hamilton Smith.[1]

1839. *Lyciscus* HAMILTON SMITH, Jardine's Naturalists Library, Mamm., vol. 9, p. 160. Type, *Canis latrans* SAY.

***Canis latrans** Say.

1823. *Canis latrans* SAY, Long's Exped. Rocky Mts., vol. 1, p. 168.

1885. *Canis latrans* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 610. 1885. (Part.)

TYPE LOCALITY.—Engineer Cantonment, near Blair, Washington County, Nebraska. (Not Council Bluffs, Pottawattamie County, Iowa.)

RANGE.—Humid prairies and bordering woodlands of the northern Mississippi Valley, in Iowa and Minnesota, and northern edge of plains westward to the base of the Rocky Mountains in the Province of Alberta.

†*Canis nebracensis nebracensis Merriam.

1897. *Canis pallidus* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 24. March 15, 1897. (Not of Rüppell, 1826.)

1898. *Canis nebracensis* MERRIAM, Science, n. s., vol. 8, p. 782. December 2, 1898. (Substitute for *pallidus* Merriam.)

TYPE LOCALITY.—Johnstown, Brown County, Nebraska.

RANGE.—Arid plains from eastern Colorado to Montana and Assiniboia.

[1] Revised by Merriam, Proc. Biol. Soc. Washington, vol. 11, pp. 19-33, March 15, 1897.

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†*Canis nebracensis texensis Bailey.

1897. *Canis frustror* Merriam, Proc. Biol. Soc. Washington, vol. 11, p. 26. March 15, 1897. (Not of Woodhouse, 1851.)

1905. *Canis nebracensis texensis* Bailey, North Amer. Fauna, No. 25, p. 175. October 24, 1905.

Type Locality.—Forty-five miles southwest of Corpus Christi, Texas.

Range.—Gulf region of Texas from Nueces Bay northward; probably throughout the lower Sonoran area of Texas, Oklahoma, and Indian Territory.

†*Canis lestes Merriam.

1897. *Canis lestes* Merriam, Proc. Biol. Soc. Washington, vol. 11, p. 25. March 15, 1897.

Type Locality.—Toyabe Mountains, near Cloverdale, Nye County, Nevada.

Range.—Transition zone from the dry interior of southern British Columbia, Washington, and Oregon southward over the higher lands of the Great Basin, the Sierra Nevada, and the Rocky Mountains to the plateau of northern Arizona, and thence along the continental divide to the Mexican boundary.

*Canis cagottis (Hamilton Smith).

1839. *Lyciscus cagottis* Hamilton Smith, Jardine's Naturalists Library, Mamm., vol. 9, p. 164.

1897. *Canis cagottis* Merriam, Proc. Biol. Soc. Washington, vol. 11, p. 27. March 15, 1897.

Type Locality.—Rio Frio, between City of Mexico and Puebla, Mexico.

Range.—Southern part of the table-land of Mexico.

†*Canis peninsulæ Merriam.

1897. *Canis peninsulæ* Merriam, Proc. Biol. Soc. Washington, vol. 11, p. 28. March 15, 1897.

Type Locality.—Santa Anita, Cape St. Lucas, Lower California, Mexico.

Range.—Peninsula of Lower California.

†*Canis microdon Merriam.

1897. *Canis microdon* Merriam, Proc. Biol. Soc. Washington, vol. 11, p. 29. March 15, 1897.

Type Locality.—Mier, on the Rio Grande, State of Tamaulipas, Mexico.

Range.—Arid tropical or Tamaulipan region of northeastern Mexico and the lower Rio Grande region of Texas.

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†*Canis mearnsi Merriam.

1897. *Canis mearnsi* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 30. March 15, 1897.

TYPE LOCALITY.—Quitobaquita, Pima County, Arizona.

RANGE.—Lower Sonoran areas of northern Sonora and southern Arizona.

Canis impavidus Allen.

1903. *Canis impavidus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 19, p. 609. November 12, 1903.

TYPE LOCALITY.—Rio del Bocas, northwest Durango, Mexico.

†*Canis estor Merriam.

1897. *Canis estor* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 31. March 15, 1897.

TYPE LOCALITY.—Noland's Ranch, San Juan River, San Juan County, Utah.

RANGE.—Lower Sonoran deserts of eastern California, Nevada, and Utah.

†*Canis jamesi Townsend.

1912. *Canis jamesi* TOWNSEND, Bull. Amer. Mus. Nat. Hist., vol. 31, p. 130. June 14, 1912.

TYPE LOCALITY.—Tiburon Island, Gulf of California, Mexico.

*Canis ochropus Eschscholtz.

1829. *Canis ochropus* ESCHSCHOLTZ, Zool. Atlas, vol. 3, pp. 1–2.

1897. *Canis ochropus* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 32. March 15, 1897.

TYPE LOCALITY.—California; specimens from Tracy, San Joaquin County, assumed to be typical.

RANGE.—Lower Sonoran region of San Joaquin Valley, California.

†*Canis vigilis Merriam.

1897. *Canis vigilis* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 33. March 15, 1897.

TYPE LOCALITY.—Manzanillo, State of Colima, Mexico.

RANGE—Arid tropical coast region of Colima, western Mexico.

*Canis clepticus Elliot.

1903. *Canis clepticus* ELLIOT, Field Columb. Mus., publ. 79, zool. ser., vol. 3, p. 225. June, 1903.

TYPE LOCALITY.—Vallecitos, San Pedro Martir Mountains, Lower California, Mexico. Altitude, 9,000 feet.

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†*Canis goldmani Merriam.

1904. *Canis goldmani* MERRIAM, Proc. Biol. Soc. Washington, vol. 17, p. 157. October 6, 1904.

TYPE LOCALITY.—San Vicente, Chiapas, Mexico, near Guatemala border.

Genus ALOPEX Kaup.

1829. *Alopex* KAUP, Skizzirte Entw.-Gersch. u. natürl. Syst. Europ. Thierw., vol. 1, p. 83. Type, *Vulpes lagopus* LINNÆUS.

†*Alopex hallensis (Merriam).

1900. *Vulpes hallensis* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 15. March 14, 1900.

TYPE LOCALITY.—Hall Island, Bering Sea, Alaska.

†*Alopex lagopus innuitus (Merriam).

1902. *Vulpes lagopus innuitus* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 170. August 6, 1902.

TYPE LOCALITY.—Karogar River, Point Barrow, Alaska.

†*Alopex lagopus ungava (Merriam).

1885. *Vulpes lagopus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 610. 1885. (Part.)

1902. *Vulpes lagopus ungava* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, 170. August 6, 1902.

TYPE LOCALITY.—Fort Chimo, Ungava, Canada.

†*Alopex pribilofensis (Merriam).

1902. *Vulpes pribilofensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 171. August 6, 1902.

TYPE LOCALITY.—St. George Island, Pribilof Islands, Bering Sea.

Genus VULPES Oken.[1]

1816. *Vulpes* OKEN, Lehrb. der Naturgesch., pt. 3, vol. 2, p. 1033. Type, *Canis vulpes* LINNÆUS.

*Vulpes fulva (Desmarest).

1820. *Canis fulvus* DESMAREST, Mammalogie, vol. 1, p. 203.

1842. *Vulpes fulvus* DE KAY, Zool. of New York, mamm., p. 44.

1885. *Vulpes fulvus fulvus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 610. 1885. (Part.)

1894. *Vulpes pennsylvanicus* RHOADS, Amer. Nat., vol. 28, p. 524. June, 1894.

1899. *Vulpes fulvus* MILLER, Bull. N. Y. State Mus., vol. 6, p. 342. November 18, 1899.

TYPE LOCALITY.—Virginia.

RANGE. Northeastern United States.

[1] American red foxes (*V. fulva* to *V. regalis*), revised by Merriam, Proc. Washington Acad. Sci., vol. 2, [illegible]-676, December 28, 1900.

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†*Vulpes macrourus Baird.

1852. *Vulpes macrourus* BAIRD, Report Stansbury's Exped. to Great Salt Lake, p. 309. June, 1852.

1885. *Vulpes macrurus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 610. 1885.

TYPE LOCALITY.—Wasatch Mountains bordering Great Salt Lake, Utah.

RANGE.—Mountains of Colorado, Utah, and Wyoming.

†*Vulpes necator Merriam.

1900. *Vulpes necator* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 664. December 28, 1900.

TYPE LOCALITY.—Whitney Meadows, near Mount Whitney, High Sierra, Tulare County, California. Altitude, 9,500 feet.

RANGE.—Southern or High Sierra, California.

†*Vulpes cascadensis Merriam.

1900. *Vulpes cascadensis* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 665. December 28, 1900.

TYPE LOCALITY.—Trout Lake, south base of Mount Adams, Cascade Mountains, Skamania County, Washington.

RANGE.—Cascade Range in Oregon and Washington, and northern Sierra Nevada in California; northern limit unknown.

Vulpes rubricosa rubricosa (Bangs).

1897. *Vulpes pennsylvanica vafra* BANGS, Proc. Biol. Soc. Washington, vol. 11, p. 53. March 16, 1897. (Not *Vulpes vafer* Leidy, 1869.)

1898. *Vulpes pennsylvanica rubricosa* BANGS, Science, n. s., vol. 7, p. 272. February 25, 1898.

1900. *Vulpes fulvus rubricatus* MILLER, Bull. N. Y. State Mus., vol. 8, p. 128. November 21, 1900. (Accidental renaming of *rubricosa*.)

1900. *Vulpes rubricosa* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 666. December 28, 1900.

TYPE LOCALITY.—Digby, Nova Scotia, Canada.

RANGE.—Nova Scotia; limits unknown.

Vulpes rubricosa bangsi Merriam.

1900. *Vulpes rubricosa bangsi* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 667. December 28, 1900.

TYPE LOCALITY.—L'Anse au Loup, Strait of Belle Isle, Labrador.

RANGE.—Labrador; limits unknown.

Vulpes deletrix Bangs.

1898. *Vulpes deletrix* BANGS, Proc. Biol. Soc. Washington, vol. 12, p. 36. March 24, 1898.

TYPE LOCALITY.—Bay St. George, Newfoundland.

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†*Vulpes alascensis alascensis Merriam.

1900. *Vulpes alascensis* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 668. December 28, 1900.

TYPE LOCALITY.—Andreafski, near mouth of Yukon River, Alaska.

RANGE.—Northern Alaska; limits unknown.

†*Vulpes alascensis abietorum Merriam.

1900. *Vulpes alascensis abietorum* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 669. December 28, 1900.

TYPE LOCALITY.—Stuart Lake, British Columbia, Canada.

RANGE.—Interior of British Columbia and probably southeastern Alaska.

†*Vulpes kenaiensis Merriam.

1900. *Vulpes kenaiensis* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 670. December 28, 1900.

TYPE LOCALITY.—Kenai Peninsula, Alaska.

RANGE.—Kenai Peninsula; limits of range unknown.

†*Vulpes harrimani Merriam.

1900. *Vulpes harrimani* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 14. March 14, 1900.

TYPE LOCALITY.—Kodiak Island, Alaska.

RANGE.—Kodiak Island, Alaska.

†*Vulpes regalis Merriam.

1900. *Vulpes regalis* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 672. December, 28, 1900.

TYPE LOCALITY.—Elk River, Sherburn County, Minnesota.

RANGE.—Northern Plains from Dakota to Alberta; east to Manitoba and Minnesota; limits of range unknown.

*Vulpes arsipus Elliot.

1903. *Vulpes arsipus* ELLIOT, Field Columb. Mus., publ. 87, zool. ser., vol. 3, p. 256. December, 1903.

TYPE LOCALITY.—Daggett, San Bernardino County, California.

†*Vulpes macrotis macrotis Merriam.

1888.. *Vulpes macrotis* MERRIAM, Proc. Biol. Soc. Washington, vol. 4, p. 136. February 18, 1888.

TYPE LOCALITY.—Riverside, San Bernardino County, California.

†*Vulpes macrotis devia Nelson and Goldman.

1909. *Vulpes macrotis devius* NELSON and GOLDMAN, Proc. Biol. Soc. Washington, vol. 22, p. 25. March 10, 1909.

TYPE LOCALITY.—Llano de Yrais, opposite Magdalena Island, Lower California, Mexico.

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†*Vulpes macrotis neomexicana Merriam.

1902. *Vulpes macrotis neomexicanus* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 74. March 22, 1902.

TYPE LOCALITY.—San Andreas Range, New Mexico (about 50 miles north of El Paso, Texas).

†*Vulpes mutica Merriam.

1902. *Vulpes muticus* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 74. March 22, 1902.

TYPE LOCALITY.—Tracy, San Joaquin County, California.

*Vulpes velox velox (Say).

1823. [*Canis*] *velox* SAY, Long's Exped. Rocky Mts., vol. 1, p. 487.

1851. *Vulpes velox* AUDUBON and BACHMAN, Quadr. N. Amer., vol. 2, p. 13.

1885. *Vulpes velox* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 610. 1885.

TYPE LOCALITY.—South Platte River (in Logan County?), Colorado. (See Cary, North Amer. Fauna, No. 33, p. 175. August 17, 1911.)

†*Vulpes velox hebes Merriam.

1902. *Vulpes velox hebes* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 73. March 22, 1902.

TYPE LOCALITY.—Calgary, Alberta, Canada.

Genus UROCYON Baird.

1857. *Urocyon* BAIRD, Mamm. N. Amer., p. 121. Type, *Canis virginianus* ERXLEBEN (= *Canis cinereoargenteus* SCHREBER).

†*Urocyon californicus californicus (Mearns).

1897. *Urocyon cinereoargenteus californicus* MEARNS, Preliminary diagnoses of new mammals of the genera Lynx, Urocyon, Spilogale, and Mephitis, from the Mexican boundary line, p. 3. January 12, 1897. (Reprint: Proc. U. S. Nat. Mus., vol. 20, p. 459. December 24, 1897.)

1899. *U[rocyon] californicus* MERRIAM, North Amer. Fauna, No. 16, p. 103. October 28, 1899.

TYPE LOCALITY.—San Jacinto Mountains, Riverside County, California. Altitude, 8,000 feet.

*Urocyon californicus sequoiensis Dixon.

1910. *Urocyon californicus sequoiensis* DIXON, Univ. Calif. Publ. Zool., vol. 5, p. 303. February 12, 1910.

TYPE LOCALITY.—Lagunitas, Marin County, California.

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†*Urocyon californicus townsendi Merriam.

1899. *Urocyon californicus townsendi* MERRIAM, North Amer. Fauna, No. 16, p. 103. October 28, 1899.

TYPE LOCALITY.—Baird, Shasta County, California.

†*Urocyon catalinæ Merriam.

1903. *Urocyon catalinæ* MERRIAM, Proc. Biol. Soc. Washington, vol. 16, p. 74. May 29, 1903.

TYPE LOCALITY.—Catalina Island, Santa Barbara Islands, California.

*Urocyon cinereoargenteus cinereoargenteus (Schreber).

1775. *Canis cinereo-argenteus* SCHREBER, Säugthiere, vol. 3, pl. 92.

1885. *Urocyon virginianus virginianus* TRUE, Proc. U. S. Nat. Mus., vol. 7, (1884), p. 610. 1885. (Part.)

1894. *Urocyon cinereo-argenteus* RHOADS, Amer. Nat., vol. 28, p. 524. June, 1894.

TYPE LOCALITY.—Eastern North America.

†*Urocyon cinereoargenteus borealis Merriam.

1903. *Urocyon cinereoargenteus borealis* MERRIAM, Proc. Biol. Soc. Washington, vol. 16, p. 74. May 29, 1903.

TYPE LOCALITY.—Marlboro, 7 miles from Monadnock, New Hampshire.

*Urocyon cinereoargenteus floridanus Rhoads.

1895. *Urocyon cinereo-argenteus floridanus* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, p. 42. April 9, 1895.

TYPE LOCALITY.—Tarpon Springs, Hillsboro County, Florida.

*Urocyon cinereoargenteus fraterculus Elliot.

1896. *Urocyon cinereo-argentatus* [sic] *fraterculus* ELLIOT, Field Columb. Mus., publ. 11, zool. ser., vol. 1, p. 80. May, 1896.

TYPE LOCALITY.—San Felipe, Yucatan.

*Urocyon cinereoargenteus inyoensis Elliot.

1904. *Urocyon cinereo-argenteus inyoensis* ELLIOT, Field Columb. Mus., publ. 90, zool. ser., vol. 3, p. 268. March 8, 1904.

TYPE LOCALITY.—Beveridge Canyon, Inyo Mountains, Inyo County, California.

*Urocyon cinereoargenteus ocythous Bangs.

1899. *Urocyon cinereoargenteus ocythous* BANGS, Proc. New England Zool. Club, vol. 1, p. 43. June 5, 1899.

TYPE LOCALITY.—Platteville, Grant County, Wisconsin.

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***Urocyon cinereoargenteus scottii** (Mearns).

1891. *Urocyon virginianus scottii* MEARNS, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 236. June 5, 1891.

1895. *Urocyon cinereo-argenteus scottii* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 253. June 29, 1895.

TYPE LOCALITY.—Pinal County, Arizona.

†*Urocyon cinereoargenteus texensis Mearns.

1897. *Urocyon cinereoargenteus texensis* MEARNS, Preliminary diagnoses of new mammals of the genera Lynx, Urocyon, Spilogale, and Mephitis, from the Mexican boundary line, p. 2. January 12, 1897. (Reprint: Proc. U. S. Nat. Mus., vol. 20, p. 459. December 24, 1897.)

TYPE LOCALITY.—San Pedro, near Eagle Pass, Maverick County, Texas.

†*Urocyon clementæ Merriam.

1903. *Urocyon clementæ* MERRIAM, Proc. Biol. Soc. Washington, vol. 16, p. 75. May 29, 1903.

TYPE LOCALITY.—San Clemente Island, Santa Barbara Islands, California.

†*Urocyon guatemalæ Miller.

1899. *Urocyon guatemalæ* MILLER, Proc. Acad. Nat. Sci. Philadelphia, p. 278. July 26, 1899.

TYPE LOCALITY.—Nenton, Guatemala.

†*Urocyon littoralis littoralis (Baird).

1857. *Vulpes* (*Urocyon*) *littoralis* BAIRD, Mamm. N. Amer., p. 143.

1885. *Urocyon virginianus littoralis* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 610. 1885.

1888. *Urocyon littoralis* MERRIAM, Proc. Biol. Soc. Washington, vol. 4, p. 135. February 18, 1888.

TYPE LOCALITY.—San Miguel Island, Santa Barbara Islands, Santa Barbara County, California.

†*Urocyon littoralis santacruzæ Merriam.

1903. *Urocyon littoralis santacruzæ* MERRIAM, Proc. Biol. Soc. Washington, vol. 16, p. 75. May 29, 1903.

TYPE LOCALITY.—Santa Cruz Island, Santa Barbara Islands, California.

†*Urocyon parvidens Miller.

1899. *Urocyon parvidens* MILLER, Proc. Acad. Nat. Sci. Philadelphia, p. 276. July 26, 1899.

TYPE LOCALITY.—Merida, Yucatan.

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Family PROCYONIDÆ.

Genus BASSARISCUS Coues.

1886. ? *Wagneria* JENTINK, Notes from the Leyden Museum, vol. 8, p. 129. Type, *Bassaris sumichrasti* SAUSSURE? (See Thomas, Ann. and Mag. Nat. Hist., ser. 7, vol. 11, pp. 380–381, April, 1903.)

1887. *Bassariscus* COUES, Science, vol. 9, p. 516. May 27, 1887. Type, *Bassaris astuta* LICHTENSTEIN.

***Bassariscus albipes** Elliot.

1903. *Bassariscus albipes* ELLIOT, Field Columb? Mus., publ. 87, zool. ser., vol. 3, p. 258. December, 1903.

TYPE LOCALITY.—Near Vera Cruz, Vera Cruz, Mexico.

***Bassariscus astutus astutus** (Lichtenstein).

1831. *Bassaris astuta* LICHTENSTEIN, Isis, vol. 24, p. 513.

1885. *Bassaris astuta* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 608. 1885.

1887. *Bassariscus astutus* COUES, Science, vol. 9, p. 516. May 27, 1887.

TYPE LOCALITY.—Southern Mexico.

***Bassariscus astutus flavus** Rhoads.

1894. *Bassariscus astutus flavus* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, 1893, p. 417. January 30, 1894.

TYPE LOCALITY.—Texas, exact locality unknown.

†*Bassariscus astutus insulicola Nelson and Goldman.

1909. *Bassariscus astutus insulicola* NELSON and GOLDMAN, Proc. Biol. Soc. Washington, vol. 22, p. 26. March 10, 1909.

TYPE LOCALITY.—San José Island, Lower California, Mexico.

***Bassariscus astutus oregonus** (Rhoads).

1894. *Bassariscus flavus oregonus* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, 1893, p. 416. January 30, 1894.

TYPE LOCALITY.—Grant's Pass, Josephine County, Oregon.

According to Merriam (Proc. Biol. Soc. Washington, vol. 11, pp. 186–187, July 1, 1897) this should stand as *Bassariscus raptor*. (†*Bassaris raptor* BAIRD, Mamm. Mexican boundary, p. 19, 1859. Type caught in the city of Washington, District of Columbia, where it had escaped from captivity.)

†*Bassariscus astutus palmarius Nelson and Goldman.

1909. *Bassariscus astutus palmarius* NELSON and GOLDMAN, Proc. Biol. Soc. Washington, vol. 22, p. 26. March 10, 1909.

TYPE LOCALITY.—Comondu, Lower California, Mexico.

†*Bassariscus saxicola Merriam.

1897. *Bassariscus saxicola* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 185. July 1, 1897.

TYPE LOCALITY.—Espiritu Santo Island, Lower California, Mexico.

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***Bassariscus sumichrasti sumichrasti** (Saussure).

1860. *Bassaris sumichrasti* SAUSSURE, Revue et magazin de zoologie, ser. 2, vol. 12, p. 7. January, 1860.

1885. *Bassaris sumichrasti* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 608. 1885.

1887. *B[assariscus] sumichrasti* COUES, Science, vol. 9, p. 516. May 27, 1887.

TYPE LOCALITY.—Southern Mexico.

***Bassariscus sumichrasti notinus** Thomas.

1903. *Bassariscus sumichrasti notinus* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 11, p. 379. April, 1903.

TYPE LOCALITY.—Boquete, Chiriqui, Panama. Altitude, 6,000 feet.

Bassariscus sumichrasti variabilis (Peters).

1874. *Bassaris variabilis* PETERS, Monatsber. k. preuss. Akad. Wessensch., Berlin, p. 704.

1903. *Bassariscus sumichrasti variabilis* THOMAS, Amer. and Mag. Nat. Hist., ser. 7, vol. 11, p. 379. April, 1903.

TYPE LOCALITY.—Coban, Guatemala.

Genus PROCYON Storr.

1780. *Procyon* STORR, Prodr. Meth. Mamm., p. 35. Type, *Ursus lotor* LINNÆUS.

Subgenus EUPROCYON Gray (see page 400).

***Procyon cancrivorus** (Cuvier).

1798. *Ursus canerivorus* CUVIER, Tabl. élém. hist. nat., p. 113.

1819. *Procyon cancrivorus* DESMAREST, Dict. hist. nat., vol. 29, p. 93.

1885. *Procyon cancrivorus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 608. 1885.

TYPE LOCALITY.—Cayenne, French Guiana. (Ranges north to Central America.)

Subgenus PROCYON Storr.

***Procyon lotor lotor** (Linnæus).

1758. [*Ursus*] *lotor* LANNÆUS, Syst. Nat., ed. 10, vol. 1, p. 48.

1819. *Procyon lotor* DESMAREST, Dict. hist. nat., vol. 29, p. 91.

1885. *Procyon lotor* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 608. 1885. (Part.)

TYPE LOCALITY.—Eastern United States.

***Procyon lotor elucus** Bangs.

1898. *Procyon lotor elucus* BANGS, Proc. Boston Soc. Nat. Hist., vol. 28, p. 219. March, 1898.

TYPE LOCALITY.—Oak Lodge, Brevard County, Florida.

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***Procyon lotor hernandezii** (Wagler).

1831. *Procyon hernandezii* WAGLER, Isis, vol. 24, p. 514.

1890. *Procyon lotor hernandezi* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 176. December 10, 1890.

TYPE LOCALITY.—Southern Mexico.

†*Procyon lotor insularis Merriam.

1898. *Procyon lotor insularis* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 17. January 27, 1898.

TYPE LOCALITY.—Maria Madre Island, Tres Marias Islands, State of Jalisco, Mexico.

***Procyon maynardi** Bangs.

1898. *Procyon maynardi* BANGS, Proc. Biol. Soc. Washington, vol. 12, p. 92. April 30, 1898.

TYPE LOCALITY.—New Providence Island, Bahamas.

†*Procyon minor Miller.

1911. *Procyon minor* MILLER, Proc. Biol. Soc. Washington, vol. 24, p. 4. January 28, 1911.

TYPE LOCALITY.—Pointe-à-Pitre, Guadeloupe, Lesser Antilles.

†*Procyon pallidus Merriam.

1900. *Procyon pallidus* MERRIAM, Proc. Biol. Soc. Washington, vol. 13, p. 151. June 13, 1900.

TYPE LOCALITY.—New River, Colorado Desert, Imperial County, California.

***Procyon psora psora** Gray.

1842. *Procyon psora* GRAY, Ann. and Mag. Nat. Hist., vol. 10, p. 261. December, 1842.

1899. [*Procyon*] *psora* MERRIAM, North Amer. Fauna, No. 16, p. 107. October 28, 1899.

TYPE LOCALITY.—Sacramento, Sacramento County, California.

†*Procyon psora pacifica Merriam.

1899. *Procyon psora pacifica* MERRIAM, North Amer. Fauna, No. 16, p. 107. October 28, 1899.

TYPE LOCALITY.—Lake Keechelus, Kittitas County, Washington. Altitude, 8,000 feet.

†*Procyon pumilus Miller.

1911. *Procyon pumilus* MILLER, Proc. Biol. Soc. Washington, vol. 24, p. 3. January 28, 1911.

TYPE LOCALITY.—Ancon, Panama.

†*Procyon pygmæus Merriam.

1901. *Procyon pygmæus* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 101. July 19, 1901.

TYPE LOCALITY.—Cozumel Island, Yucatan.

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Genus NASUA Storr.

1780. *Nasua* STORR, Prodr. Meth. Mamm., p. 35. Type, *Viverra nasua* LINNÆUS.

***Nasua narica bullata** Allen.

1904. *Nasua narica bullata* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 20, p. 48. February 29, 1904.

TYPE LOCALITY.—Pozo Azul, Pirris Province, Costa Rica.

†*Nasua narica molaris Merriam.

1902. *Nasua narica molaris* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 68. March 22, 1902.

TYPE LOCALITY.—Manzanillo, Colima, Mexico.

***Nasua narica pallida** Allen.

1904. *Nasua narica pallida* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 20, p. 53. February 29, 1904.

TYPE LOCALITY.—Sierra Nevada, Chihuahua, Mexico.

***Nasua narica panamensis** Allen.

1885. *Nasua narica*, TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 608. 1885. (Part.)

1904. *Nasua narica panamensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 20, p. 51. February 29, 1904.

TYPE LOCALITY.—Boqueron, Chiriqui, Panama.

***Nasua narica yucatanica** Allen.

1904. *Nasua narica yucatanica* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 20, p. 52. February 29, 1904.

TYPE LOCALITY.—Chichenitza, Yucatan.

†*Nasua nelsoni Merriam.

1901. *Nasua nelsoni* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 100. July 19, 1901.

1901. *Nasua thersites* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 8, p. 271. October, 1901.

TYPE LOCALITY.—Cozumel Island, Yucatan.

Genus BASSARICYON Allen.

1876. *Bassaricyon* ALLEN, Proc. Acad. Nat. Sci., Philadelphia, p. 20. Type, *Bassaricyon gabbii* ALLEN.

†*Bassaricyon gabbii Allen.

1876. [*Bassaricyon*] *gabbii* ALLEN, Proc. Acad. Nat. Sci., Philadelphia, p. 23. April 18, 1876.

1885. *Bassaricyon gabbii* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 608. 1885.

TYPE LOCALITY.—Costa Rica.

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Bassaricyon richardsoni Allen.

1908. *Bassaricyon richardsoni* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 24, p. 662. October 13, 1908.

TYPE LOCALITY.—Rio Grande, Atlantic slope, Nicaragua.

Genus POTOS Geoffroy and Cuvier.

1795. *Potos* GEOFFROY and CUVIER, Méthode Mammalogique, in Mag. Encyclopédique, vol. 2, p. 187. Type, *Viverra caudivolvula* SCHREBER.

***Potos flavus chiriquensis** Allen.

1885. *Cercoleptes caudivolvulus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 608. 1885. (Part.)

1904. *Potos flavus chiriquensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 20, p. 72. February 29, 1904.

TYPE LOCALITY.—Boqueron, Chiriqui, Panama.

***Potos flavus aztecus** Thomas.

1902. *Potos flavus aztecus* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 9, p. 268. April, 1902.

TYPE LOCALITY.—Atoyac, Vera Cruz, Mexico.

Family MUSTELIDÆ.

Subfamily MUSTELINÆ.

Genus MARTES Pinel.[1]

1792. *Martes* PINEL, Actes Soc. Hist. Nat. Paris, vol. 1, p. 55. Type, *Martes domestica* PINEL = *Mustela foina* ERXLEBEN.

Subgenus MARTES Pinel.

***Martes americana americana** (Turton.)

1806. [*Mustela*] *americanus* TURTON, Linnæus, System of Nature, vol. 1, p. 60.

1885. *Mustela americana* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 610. 1885. (Part.)

TYPE LOCALITY.—Eastern North America.

†*Martes americana abieticola (Preble).

1902. *Mustela americana abieticola* PREBLE, North Amer. Fauna, No. 22, p. 68. October 31, 1902.

TYPE LOCALITY.—Cumberland House, Saskatchewan, Canada.

[1] For present use of the names *Martes* and *Mustela* see Thomas, Proc. Zool. Soc. London, 1911, pp. 138, 139, March, 1911.

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***Martes americana abietinoides** Gray.

1865. [*Martes americana*] var. 1., *abietinoides* GRAY, Proc. Zool. Soc. London, p. 106.

1902. *Mustela americana abietinoides* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, p. 451. September 30, 1902.

TYPE LOCALITY.—"Edge of the humid western slope of the Rocky Mountains, somewhere between Kicking Horse Pass and the Columbia River." (Rhoads, p. 451.)

†*Martes americana actuosa (Osgood).

1900. *Mustela americana actuosa* OSGOOD, North Amer. Fauna, No. 19, p. 43. October 6, 1900.

TYPE LOCALITY.—Fort Yukon, Alaska.

***Martes americana kenaiensis** (Elliot).

1903. *Mustela americana kenaiensis* ELLIOT, Field Columb. Mus. publ. 72, zool. ser., vol 3, p. 151. February, 1903.

TYPE LOCALITY.—Kenai Peninsula, Alaska.

Martes atrata (Bangs).

1897. *Mustela atrata* BANGS, Amer. Nat., vol. 31, p. 162. February, 1897.

TYPE LOCALITY.—Bay St. George, Newfoundland.

***Martes boria** (Elliot).

1905. *Mustela boria* ELLIOT, Proc. Biol. Soc. Washington, vol. 18, p. 139. April 18, 1905.

TYPE LOCALITY.—Lower Mackenzie River district, toward Arctic Ocean; exact locality unknown.

Regarded by Preble (North Amer. Fauna, No. 27, p. 236–237, October 28, 1908) as identical with *M. americana actuosa*.

***Martes brumalis** (Bangs).

1898. *Mustela brumalis* BANGS, Amer. Nat., vol. 32, p. 502, July, 1898.

TYPE LOCALITY.—Okak, Labrador.

†*Martes caurina caurina (Merriam).

1890. *Mustela caurina* MERRIAM, North Amer. Fauna, No 4, p. 27. October 8, 1890.

TYPE LOCALITY.—Near Gray's Harbor, Chehalis County, Washington.

†*Martes caurina origenes (Rhoads).

1902. *Mustela caurina origenes* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, p. 458. September 30, 1902.

TYPE LOCALITY.—Marvine Mountain, Garfield County, Colorado.

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†***Martes nesophila** (Osgood).

1901. *Mustela nesophila* OSGOOD, North Amer. Fauna, No. 21, p. 33. September 26, 1901.

TYPE LOCALITY.—Massett, Graham Island, Queen Charlotte Islands, British Columbia.

Subgenus PEKANIA Gray.

1865. *Pekania*, GRAY, Proc. Zool. Soc. London, p. 107. Type, *Mustela pennanti* ERXLEBEN.

***Martes pennanti pennanti** (Erxleben).

1777. [*Mustela*] *pennanti* ERXLEBEN, Syst. Regni Anim., vol. 1, p. 470.

1885. *Mustela pennanti* TRUE, Proc. U. S. Nat. Mus., vol. 7, (1884), p. 610. 1885.

TYPE LOCALITY.—Eastern Canada.

***Martes pennanti pacifica** (Rhoads).

1898. *Mustela canadensis pacifica* RHOADS, Trans. Amer. Philos. Soc., n. s., vol. 19, p. 435. September, 1898.

TYPE LOCALITY.—Lake Keechelus, Kittitas County, Washington. Altitude, 8,000 feet.

Genus GULO Storr.

1780. *Gulo* STORR, Prodr. Meth. Mamm., p. 34. Type, *Ursus gulo* LINNÆUS.

***Gulo hylæus** Elliot.

1905. *Gulo hylæus* ELLIOT, Proc. Biol. Soc. Washington, vol. 18, p. 81. February 21, 1905.

TYPE LOCALITY.—Sushitna River, region of Mount McKinley, Alaska.

***Gulo luscus** (Linnæus).

1766. [*Ursus*] *luscus* LINNÆUS, Syst. Nat., ed. 12, vol. 1, p. 71.

1823. *Gulo luscus* SABINE, Franklin's Narrative, Journ. to Polar Sea, p. 650.

1885. *Gulo luscus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 609. 1885.

TYPE LOCALITY.—Hudson Bay.

***Gulo luteus** Elliot.

1903. *Gulo luteus* ELLIOT, Field Columb. Mus., publ. 87, zool. ser., vol. 3, p. 260. December, 1903.

TYPE LOCALITY.—Mount Whitney, Inyo County, California.

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Genus MUSTELA Linnæus.[1]

1758. *Mustela* LINNÆUS, Syst. Nat., ed. 10, vol. 1, p. 45. Type, *Mustela erminea* LINNÆUS. (See Thomas, Proc. Zool. Soc. London, 1911, p. 138, March, 1911.)

Subgenus MUSTELA Linnæus.

1829. *Ictis* KAUP, Skizzirte Entw.-Gesch. u. natürl Syst. europ. Thierw., p. 40. Type, *Mustela vulgaris* = *M. nivalis* LINNÆUS.

***Mustela cicognanii cicognanii** Bonaparte.

1838. *Mustela cicognanii* BONAPARTE, Charlesworth's Mag. Nat. Hist., vol. 2, p. 37. January, 1838.

1885. *Putorius vulgaris* TRUE, Proc. U. S. Nat. Mus., vol 7 (1884), p. 609. 1885. (Part.)

1896. *Putorius richardsoni cicognani* BANGS, Proc. Biol. Soc. Washington, vol. 10, p. 18. February 25, 1896.

TYPE LOCALITY.—Northeastern North America.

RANGE.—Boreal forest covered parts of North America from New England and Labrador to coast of southeastern Alaska (Juneau, Wrangel, and Loring), and south in the Rocky Mountains to Colorado (Silverton). It occurs in the interior of British Columbia (at Sicamous), but in the Puget Sound region is replaced by a smaller and darker form, *P. streatori*. In the United States it is common in New England and New York, and in the forest-covered parts of Minnesota. It probably occurs also in northern Michigan and Wisconsin.

***Mustela cicognanii richardsonii** (Bonaparte).

1838. *Mustela richardsonii* BONAPARTE, Charlesworth's Mag. Nat. Hist., vol. 2, p. 38. January, 1838.

1896. *Putorius richardsoni* BANGS, Proc. Biol. Soc. Washington, vol. 10, p. 16. February 25, 1896.

1896. *Putorius cicognani richardsoni* MERRIAM, North Amer. Fauna, No. 11, p. 11. June 30, 1896.

1904. *Putorius arcticus imperii* BARRETT-HAMILTON, Ann. and Mag. Nat. Hist., ser. 7, vol. 13, p. 392. May, 1904. Fort Simpson, Mackenzie. (See Preble, North Amer. Fauna, No. 27, p. 232, October 26, 1908.)

TYPE LOCALITY.—Fort Franklin, Great Bear Lake, Mackenzie, Canada.

RANGE.—Hudsonian timber belt from Hudson Bay to interior of Alaska and British Columbia.

[1] Revised (under the name *Putorius*) by Merriam, North Amer. Fauna, No. 11, pp. 9-33, June 30, 1896.

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†*Mustela cicognanii alascensis (Merriam).

1896. *Putorius richardsoni alascensis* MERRIAM, North Amer. Fauna, No. 11, p. 12. June 30, 1896.

TYPE LOCALITY.—Juneau, Alaska.

Mustela microtis (Allen).

1903. *Putorius microtis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol 19, p. 563. October 10, 1903.

TYPE LOCALITY.—Shesley, British Columbia.

†*Mustela streatori streatori (Merriam).

1896. *Putorius streatori* MERRIAM, North Amer. Fauna, No. 11, p. 13. June 30, 1896.

TYPE LOCALITY.—Mount Vernon, Skagit Valley, Skagit County, Washington.

RANGE.—Puget Sound and coast region of Washington and Oregon; south at least to Yaquina Bay (Newport), Oregon. Confined to a narrow strip along the coast.

†*Mustela streatori leptus (Merriam).

1903. *Putorius streatori leptus* MERRIAM, Proc. Biol. Soc. Washington, vol. 16, p. 76. May 29, 1903.

TYPE LOCALITY.—Silverton, San Juan County, Colorado.

Mustela muricus (Bangs).

1899. *Putorius (Arctogale) muricus* BANGS, Proc. New England Zool. Club, vol. 1, p. 71. July 31, 1899.

TYPE LOCALITY.—Echo, El Dorado County, California.

*Mustela rixosa rixosa (Bangs).

1896. *Putorius rixosus* BANGS, Proc. Biol. Soc. Washington, vol. 10, p. 21. February 25, 1896.

1911. *M[ustela] rixosa* THOMAS, Proc. Zool. Soc. London, p. 168. March, 1911.

TYPE LOCALITY.—Osler, Saskatchewan, Canada.

RANGE.—Boreal America from Hudson Bay to coast of Alaska, St. Michaels; south to northern Minnesota, Pembina, and Montana, Sun River.

*Mustela rixosa eskimo (Stone).

1900. *Putorius rixosus eskimo* STONE, Proc. Acad. Nat. Sci. Philadelphia, p. 44. March 24, 1900.

TYPE LOCALITY.—Point Barrow, Alaska.

*Mustela allegheniensis (Rhoads).

1901. *Putorius allegheniensis* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, 1900, p. 751. February 7, 1901.

TYPE LOCALITY.—Near Beallsville, Washington County, Pennsylvania.

Regarded by Ward (Bull. Wisconsin Nat. Hist. Soc., vol. 5, p. 63, January, 1907) as a subspecies of *M. rixosa*.

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†*Mustela arctica arctica (Merriam).

1896. *Putorius arcticus* MERRIAM, North Amer. Fauna, No. 11, p. 15. June 30, 1896.

TYPE LOCALITY.—Point Barrow, Alaska.

RANGE.—Arctic coast and tundras. Specimens examined from Anderson River, Franklin Bay, old Fort Good Hope, lower Mackenzie River, Point Barrow, and St. Michaels.

Mustela arctica polaris (Barrett-Hamilton).

1904. *Putorius arcticus polaris* BARRETT-HAMILTON, Ann. and Mag. Nat. Hist., ser. 7, vol. 13, p. 393. May, 1904.

TYPE LOCALITY.—Hall Land, Greenland. Latitude 82° N., longitude 59° 20′ W.

Mustela audax (Barrett-Hamilton).

1904. *Putorius audax* BARRETT-HAMILTON, Ann. and Mag. Nat. Hist., ser. 7, vol. 13, p. 392. May, 1904.

TYPE LOCALITY.—Discovery Bay, north Greenland.

†*Mustela kadiacensis (Merriam).

1896. [*Putorius arcticus*] subspecies *kadiacensis* MERRIAM, North Amer. Fauna, No. 11, p. 16. June 30, 1896.

1898. *Putorius kadiacensis* PREBLE, Proc. Biol. Soc. Washington, vol. 12, p. 169. August 10, 1898.

TYPE LOCALITY.—Kodiak Island, Alaska.

†*Mustela haidarum (Preble).

1898. *Putorius haidarum* PREBLE, Proc. Biol. Soc. Washington, vol. 12, p. 169. August 10, 1898.

TYPE LOCALITY.—Massett, Graham Island, Queen Charlotte Islands, British Columbia, Canada.

*Mustela noveboracensis noveboracensis (Emmons).

1840. *Putorius noveboracensis* EMMONS, Rep. Quadr. Massachusetts, p. 45.

1885. *Putorius erminea* TRUE, Proc. U. S. Nat. Mus., vol. 7, (1884), p. 609. 1885. (Part.)

1896. *Putorius noveboracensis* BANGS, Proc. Biol. Soc. Washington, vol. 10, p. 13. February 25, 1896.

TYPE LOCALITY.—Southern New York.

RANGE.—Eastern United States from southern Maine south at least through the transition zone and west to Illinois.

*Mustela noveboracensis notia (Bangs).

1899. *Putorius noveboracensis notius* BANGS, Proc. New England Zool. Club, vol. 1, p. 53. June 9, 1899.

TYPE LOCALITY.—Weaverville, Buncombe County, North Carolina.

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***Mustela occisor** (Bangs).

1899. *Putorius occisor* BANGS, Proc. New England Zool. Club, vol. 1, p. 54. June 9, 1899.

TYPE LOCALITY.—Bucksport, near mouth of Penobscot River, Hancock County, Maine.

†*Mustela washingtoni (Merriam).

1896. *Putorius washingtoni* MERRIAM, North Amer. Fauna, No. 11, p. 18. June 30, 1896.

TYPE LOCALITY.—Trout Lake, south base of Mount Adams, Skamania County, Washington.

RANGE.—Mount Adams Region, Washington.

***Mustela peninsulæ** (Rhoads).

1894. *Putorius peninsulæ* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, p. 152. June 19, 1894.

TYPE LOCALITY.—Hudson, Pasco County, 14 miles north of Tarpon Springs, Hillsboro County, Florida.

RANGE.—Peninsula of Florida; limits of range unknown.

***Mustela longicauda longicauda** Bonaparte.

1838. *Mustela longicauda* BONAPARTE, Charlesworth's Mag. Nat. Hist., vol. 2, p. 38. January, 1838.

1885. *Putorius longicauda* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 609. 1885.

TYPE LOCALITY.—Carlton House, on North Saskatchewan River, Saskatchewan, Canada.

RANGE.—Great Plains, from Kansas northward.

Mustela longicauda oribasus (Bangs).

1899. *Putorius* (*Arctogale*) *longicauda oribasus* BANGS, Proc. New England Zool. Club, vol. 1, p. 81. December 27, 1899.

TYPE LOCALITY.—Source of Kettle River, British Columbia, Canada. Altitude, 7,500 feet.

***Mustela longicauda spadix** (Bangs).

1896. *Putorius longicauda spadix* BANGS, Proc. Biol. Soc. Washington, vol. 10, p. 8. February 25, 1896.

TYPE LOCALITY.—Fort Snelling, Hennepin County, Minnesota.

RANGE.—Edge of timber belt in Minnesota, along boundary between transition and boreal zones.

†*Mustela saturata (Merriam).

1896. *Putorius saturatus* MERRIAM, North Amer. Fauna, No. 11, p. 21. June 30, 1896.

TYPE LOCALITY.—Siskiyou, Jackson County, Oregon. Altitude, 4,000 feet.

RANGE.—Cascade and Siskiyou Mountains of Oregon and Washington, northward into British Columbia.

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***Mustela arizonensis** (Mearns).

1891. *Putorius arizonenis* MEARNS, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 234. June 5, 1891.

TYPE LOCALITY.—San Francisco forest, a few miles south of Flagstaff, Coconino County, Arizona.

RANGE.—Broadly, the Sierra Nevada and Rocky Mountain systems, reaching British Columbia in the Rocky Mountain region, but not known north of the Siskiyou Mountains in the Sierra-Cascade system.

†*Mustela alleni (Merriam).

1896. *Putorius alleni* MERRIAM, North Amer. Fauna, No. 11, p. 24. June 30, 1896.

TYPE LOCALITY.—Custer, Black Hills, Custer County, South Dakota.

RANGE.—Black Hills, South Dakota.

***Mustela xanthogenys xanthogenys** Gray.

1843. *Mustela xanthogenys* GRAY, Ann. and Mag. Nat. Hist., vol. 11, p. 118. February, 1843.

1896. *Putorius xanthogenys* MERRIAM, North Amer. Fauna, No. 11, p. 25. June 30, 1896.

TYPE LOCALITY.—Southern California, probably in the vicinity of San Diego, San Diego County.

RANGE.—Sonoran and Transition faunas of California, on both sides of the Sierra Nevada.

***Mustela xanthogenys munda** (Bangs).

1899. *Putorius xanthogenys mundus* BANGS, Proc. New England Zool. Club, vol. 1, p. 56. June 9, 1899.

TYPE LOCALITY.—Point Reyes, Marin County, California.

†*Mustela xanthogenys oregonensis (Merriam).

1896. *Putorius xanthogenys oregonensis* MERRIAM, North Amer. Fauna, No. 11, p. 25. June 30, 1896.

TYPE LOCALITY.—Grants Pass, Rogue River Valley, Josephine County, Oregon.

RANGE.—Rogue River Valley, Oregon; limits of range unknown.

***Mustela frenata frenata** Lichtenstein.

1832. *Mustela frenata* LICHTENSTEIN, Darstellung neuer oder wenig bekannter Säugethiere, pl. 42.

1885. *Putorius brasiliensis frenatus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 610. 1885. (Part.)

TYPE LOCALITY.—Valley of Mexico, near City of Mexico, Mexico.

RANGE.—From the Valley of Mexico north to southern Texas.

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†*Mustela frenata goldmani (Merriam).

1896. *Putorius frenatus goldmani* MERRIAM, North Amer. Fauna, No. 11, p. 28. June 30, 1896.

TYPE LOCALITY.—Pinabete, State of Chiapas, Mexico. Altitude, about 8,200 feet.

RANGE.—Mountains of southeastern Chiapas; limits of range unknown.

†*Mustela frenata leucoparia (Merriam).

1896. *Putorius frenatus leucoparia* MERRIAM, North Amer. Fauna, No. 11, p. 29. June 30, 1896.

TYPE LOCALITY.—Patzcuaro, State of Michoacan, Mexico.

*Mustela frenata neomexicana (Barber and Cockerell).

1898. *Putorius frenatus neomexicanus* BARBER and COCKERELL, Proc. Acad. Nat. Sci. Philadelphia, p. 188. May 3, 1898.

TYPE LOCALITY.—Armstrongs Lake, Mesilla Valley, Dona Ana County, New Mexico.

†*Mustela tropicalis tropicalis (Merriam).

1896. *Putorius tropicalis* MERRIAM, North Amer. Fauna, No. 11, p. 30. June 30, 1896.

TYPE LOCALITY.—Jico, State of Vera Cruz, Mexico. Altitude, 6,000 feet.

RANGE.—The tropical coast belt of southern Mexico and Guatemala from Vera Cruz southward.

†*Mustela tropicalis perda (Merriam).

1902. *Putorius tropicalis perdus* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 67. March 22, 1902.

TYPE LOCALITY.—Teapa, Tabasco, Mexico.

†*Mustela costaricensis Goldman.

1912. *Mustela costaricensis* GOLDMAN, Proc. Biol. Soc. Washington, vol. 25, p. 9. January 23, 1912.

TYPE LOCALITY.—San José, Costa Rica.

*Mustela affinis Gray.

1874. *Mustela affinis* GRAY, Ann. and Mag. Nat. Hist., ser. 4, vol. 14, p. 375. November, 1874.

1885. *Putorius brasiliensis æquatorialis* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 610. 1885. (Part.)

1896. *Putorius affinis* MERRIAM, North Amer. Fauna, No. 11, p. 31. June 30, 1896.

TYPE LOCALITY.—Colombia. (Ranges north to Panama.)

*Mustela macrophoneus (Elliot).

1905. *Putorius macrophoneus* ELLIOT, Proc. Biol. Soc. Washington, vol. 18, p. 235. December 9, 1905.

TYPE LOCALITY.—Achotal, Vera Cruz, Mexico.

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Subgenus LUTREOLA Wagner.

1841. *Lutreola* WAGNER, Schreber's Säugthiere, Suppl., vol. 2, p. 239. Type, *Mustela lutreola* LINNÆUS.

***Mustela lutensis** (Bangs).

1898. *Putorius* (*Lutreola*) *lutensis* BANGS, Proc. Boston Soc. Nat. Hist., vol. 28, p. 229. March, 1898.

TYPE LOCALITY.—Salt marsh off Matanzas Inlet, St. John County, Florida.

†*Mustela macrodon (Prentiss).

1903. *Lutreola macrodon*, PRENTISS, Proc. U. S. Nat. Mus., vol. 26, p. 887. July 6, 1903.

1911. *Lutreola vison antiquus* LOOMIS, Amer. Journ. Sci., vol. 31, p. 228. March, 1911. (Flagg Island, Casco Bay, Maine.)

TYPE LOCALITY.—Shellheaps at Brooklin, Hancock County, Maine.

At present known from skeletal remains only; according to Hardy (Forest and Stream, vol. 61, p. 125, August 15, 1903) the animal became extinct about the year 1860.

***Mustela vison vison** Schreber.

1777. *Mustela vison* SCHREBER, Säugthiere, pl. 127*b*.

1885. *Putorius vison* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 609. 1885. (Part.)

TYPE LOCALITY.—Eastern Canada.

***Mustela vison energumenos** (Bangs).

1896. *Putorius vison energumenos* BANGS, Proc. Boston Soc. Nat. Hist., vol. 27, p. 5. March, 1896.

TYPE LOCALITY.—Sumas, British Columbia, Canada.

†*Mustela vison ingens (Osgood).

1900. *Lutreola vison ingens* OSGOOD, North Amer. Fauna, No. 19, p. 42. October 6, 1900.

TYPE LOCALITY.—Fort Yukon, Alaska.

†*Mustela vison lacustris (Preble).

1902. *Lutreola vison lacustris* PREBLE, North Amer. Fauna No. 22, p. 66. October 31, 1902.

TYPE LOCALITY.—Echimamish River (near Painted Stone), Keewatin, Canada.

***Mustela vison lutreocephala** (Harlan).

1825. *Mustela lutreocephala* HARLAN, Fauna Americana, p. 63.

1896. *Putorius vison lutreocephalus* BANGS, Proc. Boston Soc. Nat. Hist., vol. 27, p. 4. March, 1896.

TYPE LOCALITY.—Maryland.

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***Mustela vison melampeplus** (Elliot).

1903. *Putorius vison melampeplus* ELLIOTT, Field Columb. Mus., publ. 74, zool. ser. 3, p. 170. April, 1903.

TYPE LOCALITY.—Kenai Peninsula, Alaska.

***Mustela vison nesolestes** (Heller).

1909. *Lutreola vison nesolestes* HELLER, Univ. Calif. Publ. Zool., vol. 5, p. 259. February 18, 1909.

TYPE LOCALITY.—Windfall Harbor, Admiralty Island, Alaska.

***Mustela vison vulgivaga** (Bangs).

1895. *Putorius (Lutreola) vulgivagus* BANGS, Proc. Boston Soc. Nat. Hist., vol. 26, p. 539. July 31, 1895.

TYPE LOCALITY.—Burbridge, Plaquemines Parish, Louisiana.

Subgenus PUTORIUS Cuvier.[1]

1817. *Putorius* CUVIER, Règne Animal, vol. 1, p. 147. Type, *Mustela putorius* LINNÆUS.

***Mustela nigripes** (Audubon and Bachman).

1851. *Putorius nigripes* AUDUBON and BACHMAN, Quadr. N. Amer., vol. 2, p. 297.

1885. *Putorius nigripes*, TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 609. 1885.

TYPE LOCALITY.—Fort Laramie, Laramie County, Wyoming. (See Hayden, Trans. Amer. Philos. Soc., n. s., vol. 12, p. 138, 1862.)

Subfamily MELINÆ.

Genus TAYRA Oken.

1816. *Tayra* OKEN, Lehrb. der Naturgesch. pt. 3, vol. 2, p. 1001. Type, *Mustela barbara* LINNÆUS.

For use of this name in place of *Galera* GRAY, see Allen, Bull. Amer. Mus. Nat. Hist., vol. 16, p. 377, October 11, 1902.

***Tayra barbara biologiæ** (Thomas).

1900. *Galictis barbara biologiæ* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 5, p. 146. January, 1900.

TYPE LOCALITY.—Calovevora, Veragua, Panama.

***Tayra barbara inserta** Allen.

1908. *Tayra barbara inserta* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 24, p. 662. October 13, 1908.

TYPE LOCALITY.—Uluce, Matagalpa, Nicaragua.

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[1] Revised by Merriam, North Amer. Fauna, No. 11, pp. 7-9, June 30, 1896.

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***Tayra barbara senex** (Thomas).

1885. *Galictis barbara* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 609. 1885. (Part.)

1900. *Galictis barbara senex* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 5, p. 146. January, 1900.

TYPE LOCALITY.—Hacienda Tortugas, Jalapa, State of Vera Cruz, Mexico. Altitude, about 600 feet.

Genus GRISON Oken.

1816. *Grison* OKEN, Lehrb. der Naturgesch., pt. 3, vol. 2, p. 1000. Type, *Viverra vittata* SCHREBER.

For use of this name in place of *Galictis* BELL, see Allen, Bull. Amer. Mus. Nat. Hist., vol. 16, p. 377, October 11, 1902.

†*Grison canaster (Nelson).

1901. *Galictis canaster* NELSON, Proc. Biol. Soc. Washington, vol. 14, p. 129. August 9, 1901.

1903. *Grison canaster* MILLER and REHN, Proc. Boston Soc. Nat. Hist., vol. 31, p. 141. August 27, 1903.

TYPE LOCALITY.—Near Tunkas, Yucatan.

Regarded by Nehring (Sitz.-Ber. Gesellsch. naturforsch. Freunde, Berlin, 1901, pp. 209–212) as probably identical with the Brazilian *G. crassidens* NEHRING, 1885.

Genus SPILOGALE Gray.[1]

1865. *Spilogale* GRAY, Proc. Zool. Soc. London, p. 150. Type, *Mephitis interrupta* RAFINESQUE.

***Spilogale ambarvalis** Bangs.

1885. *Mephitis putorius* TRUE, Proc. U. S. Nat. Mus., vol. 7, (1884), p. 609. 1885. (Part.)

1898. *Spilogale ambarvalis* BANGS, Proc. Boston Soc. Nat. Hist., vol. 28, p. 222. March, 1898.

TYPE LOCALITY.—Oak Lodge, East Peninsula, opposite Micco, Brevard County, Florida.

RANGE.—Eastern portion of peninsular Florida, from New Smyrna south to Lake Worth.

***Spilogale putorius** (Linnæus).

1758. *Viverra putorius* LINNÆUS, Syst. Nat., ed. 10, vol. 1, p. 44, 1758.

†1890. *Spilogale ringens* MERRIAM, North Amer. Fauna, No. 4, p. 9. October 8, 1890. (Greensboro, Hale County, Alabama.)

TYPE LOCALITY.—South Carolina.

RANGE.—Mississippi, Alabama, western Georgia, western South Carolina, and northward along the Alleghenies to northern Virginia; western limits of range unknown.

[1] Revised by Howell, North Amer. Fauna, No. 26, November 24, 1906.

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***Spilogale interrupta** (Rafinesque).

1820. *Mephitis interrupta* RAFINESQUE, Annals of Nature, vol. 1, p. 3.

1890. *Spilogale interrupta* MERRIAM, North Amer. Fauna, No. 4, p. 8. October 8, 1890.

TYPE LOCALITY.—Upper Missouri; see Lichtenstein, Abhandl. k. preuss. Akad. Wissensch. Berlin, 1836, p. 281, 1838.

RANGE.—Iowa, southern Minnesota, Nebraska, Kansas, Missouri, and Oklahoma; south in eastern Texas to about the middle of the State.

†*Spilogale indianola Merriam.

1890. *Spilogale indianola* MERRIAM, North Amer. Fauna, No. 4, p. 10. October 8, 1890.

TYPE LOCALITY.—Indianola, Matagorda Bay, Matagorda County, Texas.

RANGE.—Coast region of Texas and Louisiana; south to Victoria, Tamaulipas.

†*Spilogale leucoparia Merriam.

1890. *Spilogale leucoparia* MERRIAM, North Amer. Fauna, No. 4, p. 11. October 8, 1890.

TYPE LOCALITY.—Mason, Mason County, Texas.

RANGE.—Arid region of western Texas and southern New Mexico; south over the eastern side of the Mexican table-land to Hidalgo; west to central Arizona.

†*Spilogale tenuis Howell.

1902. *Spilogale tenuis* HOWELL, Proc. Biol. Soc. Washington, vol. 15, p. 241, 1902.

TYPE LOCALITY.—Arkins, Larimer County, Colorado.

RANGE.—Eastern slopes of the Rocky Mountains in Colorado and northern New Mexico; limits of range unknown.

†*Spilogale gracilis gracilis Merriam.

1890. *Spilogale gracilis* MERRIAM, North Amer. Fauna, No. 3, p. 83. September 11, 1890.

TYPE LOCALITY.—Grand Canyon of the Colorado, north of San Francisco Mountain, Coconino County, Arizona.

RANGE.—Northern Arizona and desert ranges of southeastern California; south in the Sierra Madre to Jalisco and Michoacan.

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†*Spilogale gracilis saxatilis (Merriam).

1890. *Spilogale saxatilis* MERRIAM, North Amer. Fauna, No. 4, p. 13. October 8, 1890.

1906. *Spilogale gracilis saxatilis* HOWELL, North Amer. Fauna, No. 26, p. 23. November 24, 1906.

TYPE LOCALITY.—Provo, Utah County, Utah.

RANGE.—Utah, western Colorado, northern Nevada, southern Idaho, eastern Oregon, and northeastern California.

†*Spilogale ambigua Mearns.

1897. *Spilogale ambigua* MEARNS, Preliminary diagnoses of new mammals of the genera Lynx, Urocyon, Spilogale, and Mephitis, from the Mexican boundary line, p. 3. January 12, 1897. (Reprint: Proc. U. S. Nat. Mus., vol. 20, p. 460. December 24, 1897.)

TYPE LOCALITY.—Eagle Mountain, State of Chihuahua, Mexico, about four miles south of border of Dona Ana County, New Mexico.

RANGE.—From central Arizona south over the western edge of the Mexican table-land to Jalisco.

†*Spilogale angustifrons angustifrons Howell.

1902. *Spilogale angustifrons* HOWELL, Proc. Biol. Soc. Washington, vol. 15, p. 242, 1902.

TYPE LOCALITY.—Tlalpam, Federal District, Mexico.

RANGE.—Southern portion of the Mexican table-land, from Guanajuato to the Isthmus of Tehuantepec.

†*Spilogale angustifrons tropicalis Howell.

1902. *Spilogale angustifrons tropicalis* HOWELL, Proc. Biol. Soc. Washington, vol. 15, p. 242, 1902.

TYPE LOCALITY.—San Mateo del Mar, Oaxaca, Mexico.

RANGE.—Coast region of southern Oaxaca.

†*Spilogale angustifrons elata Howell.

1906. *Spilogale angustifrons elata* HOWELL, North Amer. Fauna, No. 26, p. 27. November 24, 1906.

TYPE LOCALITY.—San Bartolomé, Chiapas, Mexico.

RANGE.—Highlands of Chiapas and Costa Rica; Guatemala (?); limits of range unknown.

*Spilogale pygmæa Thomas.

1898. *Spilogale pygmæa* THOMAS, Proc. Zool. Soc. London, 1897, p. 898. April 1, 1898.

TYPE LOCALITY.—Rosario, State of Sinaloa, Mexico.

RANGE.—Known only from the type locality and from Acapulco, Guerrero.

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***Spilogale arizonæ arizonæ** (Mearns).

1891. *Spilogale phenax arizonæ* MEARNS, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 256. June 5, 1891.

1906. *Spilogale arizonæ* HOWELL, North Amer. Fauna, No. 26, p. 29. November 24, 1906.

TYPE LOCALITY.—Fort Verde, Yavapai County, Arizona.

RANGE.—Central and southern Arizona, southwestern New Mexico, and adjacent parts of Mexico.

***Spilogale arizonæ martirensis** Elliot.

1903. *Spilogale arizonæ martirensis* ELLIOT, Field Columb. Mus., publ. 74, zool. ser., vol. 3, p. 170. April, 1903.

TYPE LOCALITY.—Vallecitos, San Pedro Martir Mountains, Lower California, Mexico.

RANGE.—Lower California, from San Pedro Martir Mountains south to Comondu. Range probably not continuous.

†*Spilogale phenax phenax Merriam.

1890. *Spilogale phenax* MERRIAM, North Amer. Fauna, No. 4, p. 13. October 8, 1890.

TYPE LOCALITY.—Nicasio, Marin County, California.

RANGE.—Greater portion of California, excepting extreme northern part and southeastern desert regions.

†*Spilogale phenax latifrons Merriam.

1890. *Spilogale phenax latifrons* MERRIAM, North Amer. Fauna, No. 4, p. 15. October 8, 1890.

TYPE LOCALITY.—Roseburg, Douglas County, Oregon.

RANGE.—Coast region of Oregon and northern California.

***Spilogale phenax olympica** (Elliot).

1899. *Spilogale olympica* ELLIOT, Field Columb. Mus. publ. 32, zool. ser., vol. 1, p. 270. March, 1899.

1906. *Spilogale phenax olympica* HOWELL, North Amer. Fauna, No. 26, p. 33. November 24, 1906.

TYPE LOCALITY.—Lake Sutherland, Olympic Mountains, Clallam County, Washington.

RANGE.—The Olympic Peninsula and shores of Puget Sound; north (probably) to Howe Sound, British Columbia.

†*Spilogale microdon Howell.

1906. *Spilogale microdon* HOWELL, North Amer. Fauna, No. 26, p. 34, November 24, 1906.

TYPE LOCALITY.—Comondu, Lower California.

RANGE.—Known only from the type locality.

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†***Spilogale lucasana*** Merriam.

1890. *Spilogale lucasana* MERRIAM, North Amer. Fauna, No. 4, p. 11. October 8, 1890.

TYPE LOCALITY.—Cape St. Lucas, Lower California, Mexico.

RANGE.—Cape region of Lower California.

Genus MEPHITIS Geoffroy and Cuvier.[1]

1795. *Mephitis* GEOFFROY and CUVIER, Mag. Encyclop., 1re année, vol. 2, p. 187. Type, *Viverra mephitis* SCHREBER.

Subgenus MEPHITIS Geoffroy and Cuvier.

***Mephitis mephitis** (Schreber).

1766. *Viverra mephitis* SCHREBER, Säugthiere, vol. 3, p. 444.

1902. *Mephitis mephitis* ALLEN and others, Science, n. s., vol. 16, p. 114, July 18, 1902.

TYPE LOCALITY.—Eastern Canada.

RANGE.—Eastern Canada—Nova Scotia, Quebec, and northern Ontario; west and north at least to Oxford House, Keewatin.

***Mephitis hudsonica** (Richardson).

1829. *Mephitis americana* var. *hudsonica* RICHARDSON, Fauna Boreali-Americana, vol. 1, p. 55.

1895. *Mephitis hudsonica* BANGS, Proc. Boston Soc. Nat. Hist., vol. 26, p. 534. July 31, 1895.

TYPE LOCALITY.—Plains of the Saskatchewan.

RANGE.—Western Canada from Manitoba to British Columbia (east of the Cascades); south in the United States to Colorado, Nebraska, and Minnesota.

***Mephitis putida** Boitard.

1842. *Mephitis putida* BOITARD, Jardin des Plantes, Mamm., p. 147.

1885. *Mephitis mephitica* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 609. 1885. (Part.)

1901. *Chincha putida* HOWELL, North Amer. Fauna, No. 20, p. 25. August 31, 1901.

TYPE LOCALITY.—New Jersey.

RANGE.—New England and Middle Atlantic States; south to Virginia; west to Indiana.

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[1] Revised, under the name *Chincha*, by Howell, North Amer. Fauna, No. 20, August 31, 1901. For discussion of the nomenclature of this genus see Howell, North Amer. Fauna, No. 20, p. 14, August 31, 1901; Proc. Biol. Soc. Washington, vol. 15, pp. 1-9, February 18, 1902; North Amer. Fauna, No. 26, pp. 10-11, November 24, 1906; Allen, Bull. Amer. Mus. Nat. Hist., vol. 14, pp. 325-334; Proc. Biol. Soc. Washington, vol. 15, pp. 59-66, March 22, 1902; Allen and others, Science, n. s., vol. 16, pp. 114-115, July 18, 1902.

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***Mephitis elongata** (Bangs).

1895. *Mephitis mephitica elongata* BANGS, Proc. Boston Soc. Nat. Hist., vol. 26, p. 531. July 31, 1895.

1896. *Mephitis elongata* BANGS, Proc. Biol. Soc. Washington, vol. 10, p. 142. December 28, 1896.

TYPE LOCALITY.—Micco, Brevard County, Florida.

RANGE.—Florida (from vicinity of Lake Worth) to North Carolina, and in the mountains to West Virginia; west on the Gulf coast to the Mississippi River.

***Mephitis mesomelas mesomelas** Lichtenstein.

1832. *Mephitis mesomelas* LICHTENSTEIN, Darstellung neuer oder wenig bekannter Säugethiere, pl. 45, fig. 2.

1896. *Mephitis mephitica scrutator* BANGS, Proc. Biol. Soc. Washington, vol. 10, p. 141. December 28, 1896. (Cartville, Acadia Parish, Louisiana.)

1901. *Chincha mesomelas* HOWELL, North Amer. Fauna, No. 20, p. 29. August 31, 1901.

TYPE LOCALITY.—Louisiana.

RANGE.—West side of Mississippi Valley from southern Louisiana to Missouri; westward along the coast of Texas to Matagorda Island; and up the Red River Valley as far at least as Wichita Falls.

***Mephitis mesomelas avia** (Bangs).

1898. *Mephitis avia* BANGS, Proc. Biol. Soc. Washington, vol. 12, p. 32. March 24, 1898.

1901. *Mephitis mesomelas avia* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 14, p. 334. November 12, 1901.

TYPE LOCALITY.—San Jose, Mason County, Illinois.

RANGE.—Prairie region of Illinois, western Indiana, and eastern Iowa; boundaries of range imperfectly known.

***Mephitis mesomelas varians** (Gray).

1837. *Mephitis varians* GRAY, Charlesworth's Mag. Nat. Hist., vol. 1, p. 581.

1901. *Chincha mesomelas varians* HOWELL, North Amer. Fauna, No. 20, p. 31. August 31, 1901.

1901. *Mephitis mesomelas varians* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 14, p. 334. November 12, 1901.

TYPE LOCALITY.—Texas.

RANGE.—Southern and western Texas, eastern New Mexico, and adjacent parts of Mexico; north into Oklahoma, Colorado, Kansas, and Nebraska.

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†*Mephitis estor Merriam.

1890. *Mephitis estor* MERRIAM, North Amer. Fauna, No. 3, p. 81. September 11, 1890.

TYPE LOCALITY.—San Francisco Mountain, Coconino County, Arizona.

RANGE.—Arizona, western New Mexico, Sonora, Chihuahua, and northern Lower California; south in the Sierra Madre to southern Chihuahua; limits of range unknown.

†*Mephitis occidentalis occidentalis Baird.

1857. *Mephitis occidentalis* BAIRD, Mamm. N. Amer., p. 194.

1890. *M[ephitis] occidentalis* MERRIAM, North Amer. Fauna, No. 3, p. 82. September 11, 1890.

TYPE LOCALITY.—Petaluma, Sonoma County, California.

RANGE.—Northern and central California, from the vicinity of Monterey Bay northward, west of the Sierra and Cascades, to the Willamette Valley, Oregon.

*Mephitis occidentalis spissigrada (Bangs).

1898. *Mephitis spissigrada* BANGS, Proc. Biol. Soc. Washington, vol. 12, p. 31. March 24, 1898.

1899. *Mephitis fœtulenta* ELLIOT, Field Columbian Mus., publ. 32, zool. ser., vol. 1, p. 269. March, 1899. (Lagune, near Port Angeles, Clallam County, Washington.)

1901. *Mephitis occidentalis spissigrada* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 14, p. 334. November 12, 1901.

TYPE LOCALITY.—Sumas, British Columbia, Canada.

RANGE.—Shores of Puget Sound and coast region of Washington and northern Oregon.

†*Mephitis occidentalis notata (Howell).

1901. *Chincha occidentalis notata* HOWELL, North Amer. Fauna, No. 20, p. 36. August 31, 1901.

1901. *Mephitis occidentalis notata* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 14, p. 334. November 12, 1901.

TYPE LOCALITY.—Trout Lake, Mount Adams, Washington.

RANGE.—Southern Washington and northern Oregon, east of the Cascades; exact limits of range unknown.

†*Mephitis occidentalis major (Howell).

1901. *Chincha occidentalis major* HOWELL, North Amer. Fauna, No. 20, p. 37. August 31, 1901.

1901. *Mephitis occidentalis major* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 14, p. 334. November 12, 1901.

TYPE LOCALITY.—Fort Klamath, Klamath County, Oregon.

RANGE.—Eastern Oregon, northern California, and Nevada; east to the Wasatch Mountains in Utah.

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***Mephitis occidentalis holzneri** Mearns.

1897. *Mephitis occidentalis holzneri* MEARNS, Preliminary diagnoses of new mammals of the genera Lynx, Urocyon, Spilogale, and Mephitis, from the Mexican boundary line, p. 4. January 12, 1897. (Reprint: Proc. U. S. Nat. Mus., vol. 20, p 461. December 24, 1897.)

TYPE LOCALITY.—San Isidro Ranch, Lower California, Mexico, near border of San Diego County, California.

RANGE.—Southern California, from the vicinity of Monterey Bay south into Lower California; east to the Sierra Nevada and San Bernardino Range; limits of southward range unknown.

†*Mephitis platyrhina (Howell).

1901. *Chincha platyrhina* HOWELL, North Amer. Fauna, No. 20, p. 39. August 31, 1901.

1901. *Mephitis platyrhina* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 14, p. 334. November 12, 1901.

TYPE LOCALITY.—South fork of Kern River, 25 miles east of Kernville, Kern County, California.

RANGE.—Known only from the type locality and from Owens Valley.

Subgenus LEUCOMITRA Howell.

1901. *Leucomitra* HOWELL, North Amer. Fauna, No. 20, p. 39. August 31, 1901. Type, *Mephitis macroura* LICHTENSTEIN.

***Mephitis macroura macroura** Lichtenstein.

1834. *Mephitis macroura* LICHTENSTEIN, Darstellung neuer oder wenig bekannter Säugethiere, pl. 46.

1885. *Mephitis macrurus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 609. 1885.

TYPE LOCALITY.—Mountains northwest of the City of Mexico.

RANGE.—Highlands of central and southern Mexico; south to Guatemala.

†*Mephitis macroura milleri (Mearns).

1897. *Mephitis milleri* MEARNS, Preliminary diagnoses of new mammals of the genera Mephitis, Dorcelaphus, and Dicotyles, from the Mexican boundary of the United States, p. 1. February 11, 1897. (Reprint: Proc. U. S. Nat. Mus., vol. 20, p. 467. December 24, 1897.)

1901. *Mephitis macroura milleri* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 14, p. 334. November 12, 1901.

TYPE LOCALITY.—Fort Lowell, near Tucson, Pima County, Arizona.

RANGE.—Southern Arizona, Sonora, and parts of Chihuahua, Sinaloa, Durango, and Coahuila.

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***Mephitis macroura vittata** (Lichtenstein).

1832. *Mephitis vittata* LICHTENSTEIN, Darstellung neuer oder wenig bekannter Säugethiere, pl. 47.

1901. *Chincha macroura vittata* HOWELL, North Amer. Fauna, No. 20, p. 43. August 31, 1901.

1901. *Mephitis macroura vittata* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 14, p. 334. November 12, 1901.

TYPE LOCALITY.—San Mateo del Mar, Oaxaca, Mexico.

RANGE.—Known only from the type locality; probably ranges over the coast region of Oaxaca and Chiapas.

Genus CONEPATUS Gray.

1837. *Conepatus* GRAY, Charlesworth's Mag. Nat. Hist., vol. 1, p. 581. November, 1837. Type, *Conepatus humboldtii* GRAY.

Subgenus ORYCTOGALE Merriam.

1902. *Oryctogale* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 161. August 6, 1902. Type, *Conepatus leuconotus* LICHTENSTEIN.

†*Conepatus filipensis Merriam.

1902. *Conepatus filipensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 163. August 6, 1902.

TYPE LOCALITY.—Cerro San Felipe, Oaxaca, Mexico.

***Conepatus leuconota leuconota** Lichtenstein.

1832. *Mephitis leuconota* LICHTENSTEIN, Darstellung neuer oder wenig bekannter Säugethiere, pl. 44, fig. 1.

1902. *Conepatus leuconotus* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 161. August 6, 1902.

TYPE LOCALITY.—Rio Alvarado, Vera Cruz, Mexico.

†*Conepatus leuconota texensis Merriam.

1885. *Conepatus mapurito* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 609. 1885. (Part.)

1902. *Conepatus leuconotus texensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 162. August 6, 1902.

TYPE LOCALITY.—Brownsville, Cameron County, Texas.

***Conepatus mesoleucus mesoleucus** (Lichtenstein).

1827. *Mephitis mesoleuca* LICHTENSTEIN, Darstellung neuer oder wenig bekannter Säugethiere, pl. 64.

1902. [*Conepatus*] *mesoleucus* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 163. June 25, 1902.

TYPE LOCALITY.—Near Chico, Hidalgo, Mexico.

***Conepatus mesoleucus mearnsi** Merriam.

1902. *Conepatus mesoleucus mearnsi* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 163. August 6, 1902.

TYPE LOCALITY.—Mason, Mason County, Texas.

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†*Conepatus mesoleucus telmalestes Bailey.

1905. *Conepatus mesoleucus telmalestes* BAILEY, North Amer. Fauna, No. 25, p. 203. October 24, 1905.

TYPE LOCALITY.—Big Thicket, 7 miles northeast of Sour Lake, Hardin County, Texas.

Conepatus nicaraguæ Allen.

1910. *Conepatus nicaraguæ* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 28, p. 106. April 30, 1910.

TYPE LOCALITY.—San Rafael del Norte, Nicaragua.

†*Conepatus pediculus Merriam.

1902. *Conepatus pediculus* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 164. August 6, 1902.

TYPE LOCALITY.—Sierra Guadalupe, Coahuila, Mexico.

†*Conepatus sonoriensis Merriam.

1902. *Conepatus sonoriensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 162. August 6, 1902.

TYPE LOCALITY.—Camoa, Rio Mayo, Sonora, Mexico.

Subgenus MARPUTIUS Gray.

1837. *Marputius* GRAY, Charlesworth's Mag. Nat. Hist., vol. 1, p. 581. Type, *Mephitis chilensis* GEOFFROY.

†*Conepatus tropicalis tropicalis Merriam.

1902. *Conepatus tropicalis* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 164. August 6, 1902.

TYPE LOCALITY.—Motzorongo, Vera Cruz, Mexico.

Conepatus tropicalis trichurus Thomas.

1902. *Conepatus mapurito* BANGS, Bull. Mus. Comp. Zool., vol. 39, p. 48. April, 1902. Not of Gmelin.

1905. *Conepatus tropicalis trichurus* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 15, p. 585. June, 1905.

TYPE LOCALITY.—Boquete, Chiriqui, Panama.

Genus TAXIDEA Storr.

1780. *Taxidea* STORR, Prodr. Meth. Mamm., p. 34. Type, *Ursus taxus* SCHREBER.

*Taxidea taxus taxus (Schreber).

1778. *Ursus taxus* SCHREBER, Säugthiere, vol. 3, p. 520.

1885. *Taxidea americana americana* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 609. 1885.

1894. *Taxidea taxus* RHOADS, Amer. Nat., vol. 28, p. 524. June, 1894.

TYPE LOCALITY.—Labrador and Hudson Bay.

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†*Taxidea taxus berlandieri (Baird).

1857. *Taxidea berlandieri* BAIRD, Mamm. N. Amer., p. 205.

1885. *Taxidea americana berlandieri* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 609. 1885.

1895. *Taxidea taxus berlandieri* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 256. June 29, 1895.

TYPE LOCALITY.—Llano Estacado, Texas, near border of New Mexico.

†*Taxidea taxus infusca Thomas.

1898. *Taxidea taxus infusca* THOMAS, Proc. Zool. Soc. London, 1897, p. 899. April 1, 1898.

TYPE LOCALITY.—Santa Anita, Lower California, Mexico.

*Taxidea taxus neglecta (Mearns).

1891. *Taxidea americana neglecta* MEARNS, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 250. June 5, 1891.

1902. *Taxidea taxus neglecta* MILLER and REHN, Proc. Boston Soc. Nat. Hist., vol. 30, p. 218. December 27, 1902.

TYPE LOCALITY.—Fort Crook, Shasta County, California.

Subfamily LUTRINÆ.

Genus LUTRA Brisson.

1762. *Lutra* BRISSON, Regn. Anim., ed. 2, p. 201. Type, *Lutra* BRISSON = *Mustela lutra* LINNÆUS.

*Lutra annectens Major.

1885. *Lutra felina* and *Lutra brasiliensis* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 609. 1885.

1897. *Lutra annectens* MAJOR, Zool. Anzeiger, vol. 20, p. 142. April 26, 1897. Ann. and Mag. Nat. Hist., ser. 6, vol. 19, p. 618. June, 1897.

TYPE LOCALITY.—Terro Tepic, Rio de Tepic, State of Jalisco, Mexico.

*Lutra canadensis canadensis (Schreber).

1776. *Mustela lutra canadensis* SCHREBER, Säugthiere, pl. 126 B.

1823. *Lutra canadensis* SABINE, Franklin's Narrative, Journ. to Polar Sea, p. 653.

1885. *Lutra canadensis* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 609. 1885.

1898. *Lutra hudsonica* RHOADS, Trans. Amer. Philos. Soc., n. s., vol. 19, p. 424. September, 1898.

1898. *Lutra canadensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 460. November 10, 1898.

TYPE LOCALITY.—Eastern Canada.

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***Lutra canadensis lataxina** (F. Cuvier).

1823. *Lutra lataxina* F. CUVIER, Dict. des Sci. Nat., vol. 27, p. 242.

1898. *Lutra hudsonica lataxina* RHOADS, Trans. Amer. Philos. Soc., n. s., vol. 19, p. 427. September, 1898.

1898. *Lutra canadensis lataxina* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 460. November 10, 1898.

TYPE LOCALITY.—South Carolina.

***Lutra canadensis vaga** (Bangs).

1898. *Lutra hudsonica vaga* BANGS, Proc. Boston Soc. Nat. Hist., vol. 28, p. 224. March, 1898.

1898. *Lutra canadensis vaga* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 460. November 10, 1898.

TYPE LOCALITY.—Micco, Brevard County, Florida.

***Lutra canadensis pacifica** (Rhoads).

1898. *Lutra hudsonica pacifica* RHOADS, Trans. Amer. Philos. Soc., n. s., vol. 19, p. 429. September, 1898.

1898. *Lutra canadensis pacifica* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 460. November 10, 1898.

TYPE LOCALITY.—Lake Keechelus, Kittitas County, Washington. Altitude, 8,000 feet.

Lutra canadensis sonora (Rhoads).

1898. *Lutra hudsonica sonora* RHOADS, Trans. Amer. Philos. Soc., n. s., vol. 19, p. 431. September, 1898.

1898. *Lutra canadensis sonora* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 460. November 10, 1898.

TYPE LOCALITY.—Montezuma Well, Beaver Creek, Yavapai County, Arizona.

Lutra degener Bangs.

1898. *Lutra degener* BANGS, Proc. Biol. Soc. Washington, vol. 12, p. 35. March 24, 1898.

TYPE LOCALITY.—Bay St. George, Newfoundland.

Lutra latidens Allen.

1908. *Lutra latidens* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 24, p. 660. October 13, 1908.

TYPE LOCALITY.—Lavala, Matagalpa, Nicaragua.

***Lutra periclyzomæ** Elliot.

1905. *Lutra periclyzomæ* ELLIOT, Proc. Biol. Soc. Washington, vol. 18, p. 80. February 21, 1905.

TYPE LOCALITY.—Gawi, west coast of Moresby Island, Queen Charlotte Islands, British Columbia.

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Genus LATAX Gloger.

1827. *Latax* GLOGER, Nova acta phys. med. acad. caes. Leop.-Carol., vol. 13, pt. 2, p. 511. Type, *Lutra marina* ERXLEBEN = *Mustela lutris* LINNÆUS.

***Latax lutris lutris** (Linnæus).

1758. [*Mustela*] *lutris* LINNÆUS, Syst. nat., ed. 10, vol. 1, p. 45.
1885. *Enhydris lutris* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 609. 1885.
1885. *Latax lutris* STEJNEGER, Deutsch. geograph. Blätter, vol. 8, p. 253.
TYPE LOCALITY.—Coasts of Bering Sea.

†*Latax lutris nereis Merriam.

1904. *Latax lutris nereis* MERRIAM, Proc. Biol. Soc. Washington, vol. 17, p. 159. October 6, 1904.
TYPE LOCALITY.—San Miguel Island, Santa Barbara Islands, California.

Family FELIDÆ.

Genus FELIS Linnæus.

1758. *Felis* LINNÆUS, Syst. Nat., ed. 10, vol. 1, p. 41. Type by tautonymy, *Felis catus* LINNÆUS.

†*Felis apache Mearns.

1901. *Felis apache* MEARNS, Proc. Biol. Soc. Washington, vol. 14, p. 150. August 9, 1901.
TYPE LOCALITY.—Matamoras, Tamaulipas, Mexico.
Regarded by Bailey (North Amer. Fauna No. 25, p. 167, October 24, 1905) as the red phase of *F. cacomitli*.

†*Felis azteca azteca (Merriam).

1901. *Felis hippolestes aztecus* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 592. December 11, 1901.
1903. *Felis aztecus* MERRIAM, Proc. Biol. Soc. Washington, vol. 16, p. 73. May 29, 1903.
TYPE LOCALITY.—Colonia Garcia, Chihuahua, Mexico.

†*Felis azteca browni Merriam.

1903. *Felis aztecus browni* MERRIAM, Proc. Biol. Soc. Washington, vol. 16, p. 73. May 29, 1903.
TYPE LOCALITY.—Lower Colorado River, 12 miles south of Yuma, Arizona.

***Felis bangsi costaricensis** Merriam.

1901. *Felis bangsi costaricensis* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 596. December 11, 1901.
TYPE LOCALITY.—Boquete, Chiriqui, Panama.

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†*Felis arundivaga Hollister.

1911. *Felis arundivaga* HOLLISTER, Proc. Biol. Soc. Washington, vol. 24, p. 176. June 16, 1911.

TYPE LOCALITY.—Twelve miles southwest of Vidalia, Concordia Parish, Louisiana.

†*Felis cacomitli Berlandier.

1859. *Felis cacomitli* BERLANDIER in Baird, Rep. U. S. and Mexican Boundary Survey, vol. 2, pt. 2, p. 21. January, 1859.

1901. *Felis cacomitli* MEARNS, Proc. U. S. Nat. Mus., vol. 24, p. 207. October 4, 1901.

TYPE LOCALITY.—Matamoras; Tamaulipas, Mexico.

Felis carrikeri Allen.

1904. *Felis carrikeri* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 20, p. 47. February 29, 1904.

TYPE LOCALITY.—Pozo Azul, Pirris Province, Costa Rica.

†*Felis centralis Mearns.

1901. *Felis centralis* MEARNS, Proc. Biol. Soc. Washington, vol. 14, p. 139. August 9, 1901.

TYPE LOCALITY.—Talamanca, Costa Rica.

*Felis coryi Bangs.

1896. *Felis concolor floridanus* CORY, Hunting and Fishing in Florida, p. 109. (Not *F. floridana* Desmarest, 1820.)

1899. *Felis coryi* BANGS, Proc. Biol. Soc. Washington, vol. 13, p. 15. January 31, 1899. (Renaming of *floridanus* Cory.)

TYPE LOCALITY.—Wilderness back of Sebastian, Brevard County, Florida.

*Felis couguar Kerr.

1792. *Felis couguar* KERR, Anim. Kingd., p. 151.

1885. *Felis concolor* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 610. 1885. (Part.)

1901. *Felis couguar* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 582. December 11, 1901.

TYPE LOCALITY.—Pennsylvania.

*Felis eyra Desmarest.

1820. *Felis eyra* DESMAREST, Mammalogie, vol. 1, p. 231.

1885. *Felis eyra* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 611. 1885.

TYPE LOCALITY.—Paraguay. (Supposed to range north to Central America.)

†*Felis fossata Mearns.

1901. *Felis fossata* MEARNS, Proc. Biol. Soc. Washington, vol. 14, p. 150. August 9, 1901.

TYPE LOCALITY.—Merida, Yucatan.

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Felis glaucula Thomas.

1903. *Felis glaucula* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 12, p. 235. August, 1903.

TYPE LOCALITY.—Beltran, Jalisco, Mexico.

***Felis hernandesii hernandesii** (Gray).

1857. *Leopardus hernandesii* GRAY, Proc. Zool. Soc. London, p. 278.

1885. *Felis onca* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 610. 1885. (Part.)

1901. *Felis hernandesii* MEARNS, Proc. Biol. Soc. Washington, vol. 14, p. 142. August 9, 1901.

TYPE LOCALITY.—Mazatlan, Sinaloa, Mexico.

†***Felis hernandesii goldmani** Mearns.

1901. *Felis hernandesii goldmani* MEARNS, Proc. Biol. Soc. Washington, vol. 14, p. 142. August 9, 1901.

TYPE LOCALITY.—Yohaltun, Campeche, Mexico.

Felis improcera Phillips.

1912. *Felis improcera* PHILLIPS, Proc. Biol. Soc. Washington, vol. 25, p. 85, May 4, 1912.

TYPE LOCALITY.—Calmalli, Lower California, Mexico.

†***Felis mearnsi** Allen.

1902. *Felis costaricensis* MEARNS, Proc. U. S. Nat. Mus., vol. 25, p. 245. September 17, 1902. Not *F. bangsi costaricensis* Merriam, 1901.

1904. *Felis mearnsi* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 20, p. 71. February 29, 1904. (Substitute for *costaricensis* Mearns.)

TYPE LOCALITY.—Talamanca, Costa Rica.

***Felis oregonensis oregonensis** Rafinesque.

1832. *Felix* [sic] *oregonensis* RAFINESQUE, Atlantic Journal, vol. 1, p. 62.

†1897. *Felis hippolestes olympus* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 220. July 15, 1897. (Lake Cushman, Olympic Mountains, Washington.)

(See note, page 400.)

1899. *Felis oregonensis* STONE, Science, n. s., vol. 9, p. 35. January 6, 1899.

TYPE LOCALITY.—Northwest coast of the United States. (See Stone, Science, n. s., vol. 9, p. 35, Jan. 6, 1899.)

†***Felis oregonensis hippolestes** (Merriam).

1897. *Felis hippolestes* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 219. July 15, 1897.

1899. *Felis oregonensis hippolestes* STONE, Science, n. s., vol. 9, p. 35. January 6, 1899.

TYPE LOCALITY.—Wind River Mountains, Fremont Co., Wyoming.

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Felis panamensis Allen.

1904. *Felis panamensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 20, p. 71. February 29, 1904.

TYPE LOCALITY.—Boqueron, Chiriqui, Panama.

***Felis pardalis pardalis** Linnæus.

1758. [*Felis*] *pardalis* LINNÆUS, Syst. Nat., ed. 10, vol. 1, p. 42.

1885. *Felis pardalis* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 610. 1885.

TYPE LOCALITY.—Mexico.

***Felis pardalis albescens** (Pucheran).

1855. *Felis albescens* PUCHERAN in Geoffroy, Voyage de la *Vénus*, Zool., p. 149.

†1901. *Felis limitis* MEARNS, Proc. Biol. Soc. Washington, vol. 14, p. 146. August 9, 1901. (Brownsville, Cameron County, Texas.)

1906. *Felis pardalis albescens* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 22, p. 219. July 25, 1906.

TYPE LOCALITY.—Arkansas.

Felis pardinoides oncilla Thomas.

1903. *Felis pardinoides oncilla* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 12, p. 237. August, 1903.

TYPE LOCALITY.—Volcan de Irazú, Costa Rica.

***Felis tigrina** Schreber.

1775. *Felis tigrina* SCHREBER, Säugthiere, pl. 106.

1885. *Felis tigrina* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 611. 1885.

TYPE LOCALITY.—Cayenne. (Ranges north to Honduras.)

***Felis yagouaroundi tolteca** Thomas.

1885. *Felis yaguarundi* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 611. 1885. (Part.)

1898. *Felis yaguarondi tolteca* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 1, p. 41. January, 1898.

TYPE LOCALITY.—Tatemales, State of Sinaloa, Mexico.

Genus LYNX Kerr.

1792. *Lynx* KERR, Anim, Kingd., vol. 1, systematic catalogue inserted between pages 32 and 33 (description, p. 155). Type, *Lynx vulgaris* KERR = *Felis lynx* LINNÆUS.

1867. *Cervaria* GRAY, Proc. Zool. Soc. London, p. 276. (Not of Walker, 1866.) Type, *Felis pardina* TEMMINCK = *Lynx pardellus* MILLER.

1903. *Eucervaria* PALMER, Science, n. s., vol. 17, p. 873. May 29, 1903. (Substitute for *Cervaria* Gray.)

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***Lynx candensis canadensis** Kerr.

1792. *Lynx canadensis* Kerr, Anim. Kingd., vol. 1, systematic catalogue inserted between pages 32 and 33 (description, p. 157).

1885. *Lynx borealis canadensis* True, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 611. 1885.

1887. *L[ynx] canadensis* True, Proc. U. S. Nat. Mus., vol. 10, p. 9.

Type Locality.—Eastern Canada.

***Lynx canadensis mollipilosus** Stone.

1900. *Lynx canadensis mollipilosus* Stone, Proc. Acad. Nat. Sci. Philadelphia, p. 48. March 24, 1900.

Type Locality.—Wainwright Inlet, Point Barrow, Alaska.

***Lynx subsolanus** Bangs.

1897. *Lynx subsolanus* Bangs, Proc. Biol. Soc. Washington, vol. 11, p. 49. March 16, 1897.

Type Locality.—Codroy, Newfoundland.

†*Lynx baileyi Merriam.

1890. *Lynx baileyi* Merriam, North Amer. Fauna, No. 3, p. 79. September 11, 1890.

Type Locality.—Moccasin Spring, Coconino County, Arizona.

***Lynx fasciatus fasciatus** Rafinesque.

1817. *Lynx fasciatus* Rafinesque, American Monthly Magazine, vol. 2, p. 46. November, 1817.

1897. *Lynx fasciatus* Merriam, Mazama, vol. 1, p. 224. October, 1897.

Type Locality.—"Northwest coast"; probably near the mouth of the Columbia River.

***Lynx fasciatus oculeus** Bangs.

1899. *Lynx fasciatus oculeus* Bangs, Proc. New England Zool. Club, vol. 1, p. 23. March 31, 1899.

Type Locality.—Nicasio, Marin County, California.

†*Lynx fasciatus pallescens Merriam.

1899. *Lynx fasciatus pallescens* Merriam, North Amer. Fauna, No. 16, p. 104. October 28, 1899.

Type Locality.—South side of Mount Adams, near Trout Lake, Skamania County, Washington.

***Lynx gigas** Bangs.

1897. *Lynx gigas* Bangs, Proc. Biol. Soc. Washington, vol. 11, p. 50. March 16, 1897.

Type Locality.—Fifteen miles back of Bear River, Nova Scotia.

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***Lynx ruffus ruffus** (Güldenstædt).

1776. *Felis ruffa* GÜLDENSTÆDT, Nov. comm. acad. scient. imp. Petrop., vol. 20 (1775), p. 484.

1817. *Lynx rufa* RAFINESQUE, American Monthly Magazine, vol. 2, p. 46. November, 1817.

1885. *Lynx rufus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 611. 1885. (Part.)

TYPE LOCALITY.—New York.

†*Lynx ruffus californicus Mearns.

1897. *Lynx rufus californicus* MEARNS, Preliminary diagnoses of new mammals of the genera Lynx, Urocyon, Spilogale, and Mephitis, from the Mexican boundary line, p. 2. January 12, 1897. (Reprint: Proc. U. S. Nat. Mus., vol. 20, p. 458. December 24, 1897.)

TYPE LOCALITY.—San Diego, San Diego County, California.

Regarded by Merriam (North Amer. Fauna, No. 16, p. 104, October 28, 1899) as a distinct species.

†*Lynx ruffus eremicus Mearns.

1897. *Lynx rufus eremicus* MEARNS, Preliminary diagnoses of new mammals of the genera Lynx, Urocyon, Spilogale, and Mephitis, from the Mexican boundary line, p. 1. January 12, 1897. (Reprint: Proc. U. S. Nat. Mus., vol. 20, p. 457. December 24, 1897.)

TYPE LOCALITY.—New River, near Laguna Station, Colorado Desert, Imperial County, California.

***Lynx ruffus escuinapæ** Allen.

1903. *Lynx ruffus escuinapæ* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 19, p. 614. November 14, 1903.

TYPE LOCALITY.—Escuinapa, Sinaloa, Mexico.

***Lynx ruffus floridanus** (Rafinesque).

1817. *Lynx floridanus* RAFINESQUE, American Monthly Magazine, vol. 2, p. 46. November, 1817.

1857. *Lynx rufus* var. *floridanus* BAIRD, Mamm. N. Amer., p. 91.

1897. *Lynx ruffus floridanus* BANGS, Proc. Biol. Soc. Washington, vol. 11, p. 49. March 16, 1897.

TYPE LOCALITY.—Florida.

***Lynx ruffus peninsularis** Thomas.

1898. *Lynx rufus peninsularis* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 1, p. 42. January, 1898.

TYPE LOCALITY.—Santa Anita, Lower California, Mexico.

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***Lynx ruffus texensis** (Allen).

1885. *Lynx maculatus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 611. 1885.

1895. *Lynx texensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 188. June 20, 1895.

1897. *Lynx rufus texensis* MEARNS, Preliminary diagnoses of new mammals of the genera Lynx, Urocyon, Spilogale, and Mephitis, from the Mexican boundary line, p. 2. January 12, 1897. (Reprint: Proc. U. S. Nat. Mus., vol. 20, p. 458. December 24, 1897.)

TYPE LOCALITY.—"Mexico."

†***Lynx uinta** Merriam.

1902. *Lynx uinta* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 71. March 22, 1902.

TYPE LOCALITY.—Fort Bridger, Carbon County, Wyoming.

Order PINNIPEDIA.

Family OTARIIDÆ.

Genus ZALOPHUS Gill.

1866. *Zalophus* GILL, Comm. Essex Inst., vol. 5, p. 7. Type, *Otaria gillespii* MCBAIN = *Otaria californiana* LESSON.

***Zalophus californianus** (Lesson).

1828. *Otaria californiana* LESSON, Dict. class. hist. nat., vol. 13, p. 420.

1880. *Zalophus californianus* ALLEN, Monogr. N. Amer. Pinnipeds, p. 276.

1885. *Zalophus californianus* TRUE. Proc. U. S. Nat. Mus., vol. 7 (1884), p. 607. 1885.

TYPE LOCALITY.—California.

Genus EUMETOPIAS Gill.

1866. *Eumetopias* GILL, Comm. Essex Inst., vol. 5, p. 7. Type, "*Otaria californiana*" = *Otaria stelleri* LESSON.

***Eumetopias jubata** (Schreber).

1776. *Phoca jubata* SCHREBER, Säugthiere, vol. 3, p. 300.

1885. *Eumetopias stelleri* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 607. 1885.

1902. *Eumetopias jubata* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 16, p. 113. March 15, 1902.

TYPE LOCALITY.—North Pacific Ocean.

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Genus CALLORHINUS Gray.[1]

1859. *Callorhinus* GRAY, Proc. Zool. Soc. London, p. 359. Type, *Phoca ursina* LINNÆUS.

1892. *Callotaria* PALMER, Proc. Biol. Soc. Washington, vol. 7, p. 156. July 27, 1892. (Substitute for *Callorhinus*, assumed to be a homonym of *Callirhinus* Blanchard 1850. This is not in conformity with the provisions of the International Code, art. 36, with accompanying recommendation.)

***Callorhinus alascanus** Jordan and Clark.

1885. *Callorhinus ursinus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 607. 1885.

1899. *Callorhinus alascanus* JORDAN and CLARK, The Fur Seals and Fur Seal Islands of the North Pacific Ocean, pt. 3, p. 2. November, 1899.

TYPE LOCALITY.—Pribilof Islands, Bering Sea.

Genus ARCTOCEPHALUS F. Cuvier.

1827. *Arctocephalus* F. CUVIER, Dict. des. sci. nat., vol. 39, p. 554. Type, *Arctocephalus ursinus* F. CUVIER = *Phoca ursina* LINNÆUS.

†*Arctocephalus townsendi Merriam.

1897. *Arctocephalus townsendi* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 178. July 1, 1897.

TYPE LOCALITY.—Guadalupe Island, Lower California, Mexico.

Family PHOCIDÆ.

Genus PHOCA Linnæus.

1758. *Phoca* LINNÆUS, Syst. Nat., ed. 10, vol. 1, p. 37. Type, *Phoca vitulina* LINNÆUS.

Subgenus PHOCA Linnæus.

†*Phoca ochotensis macrodens Allen.

1902. *Phoca ochotensis macrodens* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 16, p. 483. December 12, 1902.

TYPE LOCALITY.—Avatcha Bay, Kamchatka. (Ranges to Point Barrow, Alaska.)

[1] For discussion of the various names proposed for this genus see Palmer, Proc. Biol. Soc. Washington, vol. 7, p. 156, July 27, 1892; Proc. Biol. Soc. Washington, vol. 14, pp. 133–134, August 9, 1901; Allen, Bull. Amer. Mus. Nat. Hist., vol. 16, pp. 115–118, March 15, 1902; Jordan and Clark, The fur seals and fur seal islands of the North Pacific Ocean, pt. 3, p. 2, November, 1899.

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***Phoca richardii richardii** (Gray).

1864. *Halicyon richardii* GRAY, Proc. Zool. Soc. London, p. 28.

1899. *Phoca largha* TRUE, The Fur Seals and Fur Seal Islands of the North Pacific Ocean, pt. 3, p. 351. November, 1899.

1902. *Phoca richardii* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 16, p. 491. December 12, 1902.

TYPE LOCALITY.—Vancouver Island, British Columbia, Canada.

†*Phoca richardii geronimensis Allen.

1902. *Phoca richardii geronimensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 16, p. 495. December 12, 1902.

TYPE LOCALITY.—San Geronimo Island, Lower California, Mexico.

†*Phoca richardii pribilofensis Allen.

1902. *Phoca richardii pribilofensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 16, p. 495. December 12, 1902.

TYPE LOCALITY.—Pribilof Islands, Alaska.

***Phoca vitulina** Linnæus.

1758. *Phoca vitulina* LINNÆUS, Syst. Nat., ed. 10, vol. 1, p. 38.

1885. *Phoca vitulina* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 607. 1885.

TYPE LOCALITY.—Europe. (Ranges along most of the Atlantic coast of the United States.)

Subgenus HISTRIOPHOCA Gill.

1873. *Histriophoca* GILL, Amer. Nat., vol. 7, p. 179. March, 1873. Type, *Phoca fasciata* ZIMMERMANN.

***Phoca fasciata** Zimmermann.

1873. *Phoca fasciata* ZIMMERMANN, Geogr. Gesch., vol. 3, p. 277.

1885. *Phoca fasciata* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 607. 1885.

TYPE LOCALITY.—Kurile Islands, Japan. (Ranges eastward to the Aleutian Islands and coast of Alaska.)

Subgenus PUSA Scopoli.

1777. *Pusa* SCOPOLI, Introd. Hist. Nat., p. 490. Type, *Phoca fœtida* FABRICIUS = *P. hispida* SCHREBER.

***Phoca hispida** Schreber.

1775. *Phoca hispida* SCHREBER, Säugthiere, vol. 3, p. 312.

1885. *Phoca fœtida* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 607. 1885.

1898. *Phoca hispida* THOMAS, The Zoologist, ser. 4, vol. 2, pp. 100, 102. March, 1898.

TYPE LOCALITY.—Coasts of Greenland and Labrador.

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Subgenus PAGOPHILUS Gray.

1844. *Pagophilus* GRAY, Zoology of the *Erebus* and *Terror*, p. 3. Type, *Phoca grœnlandica* ERXLEBEN.

1904. *Pagophoca* TROUESSART, Catal. Mamm., Suppl., p. 287. (Substitute for *Pagophilus*, assumed to be a homonym of *Pagophila* Kaup, 1829.)

***Phoca grœnlandica** Erxleben.

1777. [*Phoca*] *grœnlandica* ERXLEBEN, Syst. Regni Anim., vol. 1, p. 588.

1885. *Phoca grœnlandica* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 607. 1885.

TYPE LOCALITY.—Greenland and Newfoundland.

Genus ERIGNATHUS Gill.

1866. *Erignathus* GILL, Comm. Essex Inst., vol. 5, p. 5. Type, *Phoca barbata* ERXLEBEN.

***Erignathus barbatus barbatus** (Erxleben).

1777. [*Phoca*] *barbata* ERXLEBEN, Syst. Regni Anim., vol. 1, p. 590.

1866. *Erignathus barbatus* GILL, Comm. Essex Inst., vol. 5, p. 12.

1885. *Erignathus barbatus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 607. 1885.

TYPE LOCALITY.—Coasts of Scotland, southern Greenland and Iceland.

***Erignathus barbatus nauticus** (Pallas).

1811. *Phoca nautica* PALLAS, Zoogr. Russo-Asiat., vol. 1, p. 108.

1904. *Erignathus barbatus nauticus* OSGOOD, North Amer. Fauna, No. 24, p. 47. November 23, 1904.

TYPE LOCALITY.—Okhotsk Sea. (Ranges eastward to the coast of Alaska.)

Genus MONACHUS Fleming.

1822. *Monachus* FLEMING, Philos. Zool., vol. 2, p. 187. Type, *Phoca monachus* HERMANN.

***Monachus tropicalis** (Gray).

1850. *Phoca tropicalis* GRAY, Cat. Seals Brit. Mus., p. 28.

1866. *Monachus tropicalis* GRAY, Cat. Seals and Whales Brit. Mus., p. 20.

1885. *Monachus tropicalis* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 607. 1885.

TYPE LOCALITY.—Jamaica.

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Genus HALICHŒRUS Nilsson.

1820. *Halichœrus* NILSSON, Skand. Fauna, vol. 1, p. 376. Type, *Halichœrus griseus* NILSSON = *Phoca grypus* FABRICIUS.

***Halichœrus grypus** (Fabricius).

1791. *Phoca grypus* FABRICIUS, Skrivter af Naturhist-Selskabet, Kjöbenhavn, vol. 1, pt. 2, p. 167, pl. 13, fig. 4.

1841. *Halichœrus grypus* NILSSON, Wiegmann's Arch. f. Naturg., VII, vol. 1, p. 318.

1885. *Halichœrus grypus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 607. 1885.

TYPE LOCALITY.—Greenland.

Genus MIROUNGA Gray.

1826. *Macrorhinus* F. CUVIER, Dict. des sci. nat., vol. 39, p. 552. Type, *Phoca proboscidea* PÉRON = *P. leoninus* LINNÆUS. (Not of Latreille, 1825.)

1827. *Mirounga* GRAY, Griffith's Cuvier, Anim. Kingd., vol. 5, p. 179. Type, *Phoca proboscidea* PÉRON.

†*Mirounga angustirostris (Gill).

1866. *Macrorhinus angustirostris* GILL, Proc. Chicago Acad. Sci., vol. 1, p. 33.

1885. *Macrorhinus angustirostris* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 608. 1885.

1904. *Mirounga angustirostris* ELLIOT, Field Columb. Mus. publ. 95, zool. ser., vol. 4, pt. 2, p. 545.

TYPE LOCALITY.—St. Bartholomew's Bay, Lower California, Mexico.

Genus CYSTOPHORA Nilsson.

1820. *Cystophora* NILSSON, Skand. Fauna, vol. 1, p. 382. Type, *Cystophora borealis* NILSSON = *Phoca cristata* ERXLEBEN.

***Cystophora cristata** (Erxleben).

1777. [*Phoca*] *cristata* ERXLEBEN, Syst. Regni Anim., vol. 1, p. 590.

1841. *Cystophora cristata* NILSSON, Wiegmann's Arch. f. Naturg., VII, vol. 1, p. 326.

1885. *Cystophora cristata* TRUE, Proc. U. S. Nat. Mus., vol. 7, (1884), p. 608. 1885.

TYPE LOCALITY.—Southern Greenland and Newfoundland.

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Family ODOBENIDÆ.

Genus ODOBENUS Brisson.

1762. *Odobenus* BRISSON, Regn. Anim., ed. 2, p. 30. Type, *Odobenus* BRISSON = *Phoca rosmarus* LINNÆUS.

***Odobenus obesus** (Illiger).

1815. *Trichechus obesus* ILLIGER, Abhandl. k. preuss. Akad. Wissensch. Berlin, p. 64.

1880. *Odobænus obesus* ALLEN, Hist. N. Amer. Pinnipeds, p. 147.

1885. *Odobænus obesus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 608. 1885.

TYPE LOCALITY.—Coast of northeastern Asia. (Ranges eastward to northern Alaska.)

***Odobenus rosmarus** (Linnæus).

1758. [*Phoca*] *rosmarus* LINNÆUS, Syst. Nat., ed 10, vol. 1, p. 38.

1859. *O*[*dobænus*] *rosmarus* SUNDEVALL, Öfver. k. vet. akad. forh., Stockholm, 1859, p. 446.

1885. *Odobænus rosmarus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 608. 1885.

TYPE LOCALITY.—Arctic regions. (Ranges south to the coast of Labrador.)

Order RODENTIA.

Family MURIDÆ.

Subfamily CRICETINÆ.

Genus ONYCHOMYS Baird.

1857. *Onychomys* BAIRD, Mamm. N. Amer., p. 458. Type, *Hypudæus leucogaster* WIED.

***Onychomys arcticeps** Rhoads.

1898. *Onychomys arcticeps* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, p. 194. May 3, 1898.

TYPE LOCALITY.—Clapham, Union County, New Mexico.

†*Onychomys fuliginosus Merriam.

1890. *Onychomys fuliginosus* MERRIAM, North Amer. Fauna, No. 3, p. 60. September 11, 1890.

TYPE LOCALITY.—Black Tank lava beds, northeast of San Francisco Mountain, Coconino County, Arizona.

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***Onychomys leucogaster leucogaster** (Wied).

1841. *Hypudæus leucogaster* WIED, Reise in das innere Nord Amerika, vol. 2, p. 99.

1857. *Onychomys leucogaster* BAIRD, Mamm. N. Amer., p. 459.

1885. *Hesperomys leucogaster* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 597. 1885.

TYPE LOCALITY.—Clark, Clark County, South Dakota

†*Onychomys leucogaster albescens Merriam.

1904. *Onychomys leucogaster albescens* MERRIAM, Proc. Biol. Soc. Washington, vol. 17, p. 124. June 9, 1904.

TYPE LOCALITY.—Samalayuca, Chihuahua, Mexico.

†*Onychomys leucogaster brevicaudus Merriam.

1891. *Onychomys leucogaster brevicaudus* MERRIAM, North Amer. Fauna, No. 5, p. 52. July 30, 1891.

TYPE LOCALITY.—Blackfoot, Bingham County, Idaho.

†*Onychomys longicaudus Merriam.

1889. *Onychomys longicaudus* MERRIAM, North Amer. Fauna, No. 2, p. 2. October 30, 1889.

TYPE LOCALITY.—St. George, Washington County, Utah.

†*Onychomys longipes Merriam.

1889. *Onychomys longipes* MERRIAM, North Amer. Fauna, No. 2, p. 1. October 30, 1889.

TYPE LOCALITY.—Concho County, Texas.

***Onychomys macrotis** Elliot.

1903. *Onychonys macrotis* ELLIOT, Field Columb. Mus., publ. 74, zool. ser., vol. 3, p. 155. April, 1903.

TYPE LOCALITY.—Head of San Antonio River, Lower California, Mexico.

†*Onychomys melanophrys melanophrys (Merriam).

1889. *Onychomys leucogaster melanophrys* MERRIAM, North Amer. Fauna, No. 2, p. 2. October 30, 1889.

1890. *O[nychomys] melanophrys* MERRIAM, North Amer. Fauna, No. 3, p. 61. September 11, 1890.

TYPE LOCALITY.—Kanab, Kane County, Utah.

†*Onychomys melanophrys pallescens Merriam.

1890. *Onychomys melanophrys pallescens* MERRIAM, North Amer. Fauna, No. 3, p. 61. September 11, 1890.

TYPE LOCALITY.—Moki Pueblos, Apache County, Arizona.

***Onychomys pulcher** Elliot.

1903. *Onychomys pulcher* ELLIOT, Field Columb. Mus., publ. 87, zool. ser., vol. 3, p. 243. December, 1903.

TYPE LOCALITY.—Morongo Pass, San Bernardino Mountains, California.

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***Onychomys ramona** Rhoads.

1893. *Onychomys ramona* RHOADS, Amer. Nat., vol. 27, p. 833. September, 1893.

TYPE LOCALITY.—San Bernardino Valley, California.

***Onychomys ruidosæ** Stone and Rehn.

1903. *Onychomys ruidosæ* STONE and REHN, Proc. Acad. Nat. Sci. Philadelphia, p. 18. May 7, 1903.

TYPE LOCALITY.—Ruidoso, Lincoln County, New Mexico.

†*Onychomys torridus torridus (Coues).

1874. *Hesperomys* (*Onychomys*) *torridus* COUES, Proc. Acad. Nat. Sci. Philadelphia, p. 183. December 15, 1874.

1885. *Hesperomys torridus* TRUE, Proc. U. S. Nat. Mus., vol. 7, (1884), p. 597. 1885.

1889. *Onychomys torridus* MERRIAM, North Amer. Fauna, No. 2, p. 3. October 30, 1889.

TYPE LOCALITY.—Camp Grant, Graham County, Arizona.

†*Onychomys torridus arenicola Mearns.

1896. *Onychomys torridus arenicola* MEARNS, Preliminary diagnoses of new mammals from the Mexican border of the United States, p. 3. May 25, 1896. (Reprint: Proc. U. S. Nat. Mus., vol. 19, p. 139. December 21, 1896.)

TYPE LOCALITY.—Rio Grande, about 6 miles above El Paso, El Paso County, Texas.

Regarded by Bailey (North Amer. Fauna, No. 25, p. 94, October 24, 1905) as identical with *O. torridus torridus*.

†*Onychomys torridus canus Merriam.

1904. *Onychomys torridus canus* MERRIAM, Proc. Biol. Soc. Washington, vol. 17, p. 124. June 9, 1904.

TYPE LOCALITY.—San Juan Capistrano, Zacatecas, Mexico.

†*Onychomys torridus perpallidus Mearns.

1896. *Onychomys torridus perpallidus* MEARNS, Preliminary diagnoses of new mammals from the Mexican border of the United States, p. 4. May 25, 1896. (Reprint: Proc. U. S. Nat. Mus., vol. 19, p. 140. December 21, 1896.)

TYPE LOCALITY.—Left bank of the Colorado River at monument No. 204, Mexican boundary line, Yuma County, Arizona.

†*Onychomys torridus tularensis Merriam.

1904. *Onychomys torridus tularensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 17, p. 123. June 9, 1904.

TYPE LOCALITY.—Bakersfield, Kern County, California.

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†*Onychomys torridus yakiensis Merriam.

1904. *Onychomys torridus yakiensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 17, p. 124. June 9, 1904.

TYPE LOCALITY.—Camoa, Rio Mayo, southern Sonora, Mexico.

Genus REITHRODONTOMYS Giglioli.

1873. *Reithrodontomys* GIGLIOLI, Richerche intorno alla distrib. geog. gener., p. 60. Type, *Reithrodon* from North America = *Mus humulis* AUDUBON and BACHMAN.

†*Reithrodontomys albescens Cary.

1903. *Reithrodontomys albescens* CARY, Proc. Biol. Soc. Washington, vol. 16, p. 53. May 6, 1903.

TYPE LOCALITY.—Eighteen miles northwest of Kennedy, Cherry County, Nebraska.

*Reithrodontomys arizonensis Allen.

1895. *Reithrodontomys arizonensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 134. May 21, 1895.

TYPE LOCALITY.—Chiricahua Mountains, Cochise County, Arizona. Altitude, 8,000 feet.

*Reithrodontomys australis australis Allen.

1895. *Reithrodontomys australis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 328. November 8, 1895.

TYPE LOCALITY.—Volcan de Irazú, Costa Rica.

Reithrodontomys australis vulcanius Bangs.

1902. *Reithrodontomys australis vulcanius* BANGS, Bull. Mus. Comp. Zoöl., vol. 39, p. 38. April, 1902.

TYPE LOCALITY.—Volcan de Chiriqui, Chiriqui, Panama. Altitude, 10,300 feet.

*Reithrodontomys catalinæ Elliot.

1903. *Reithrodontomys catalinæ* ELLIOT, Field Columb. Mus., publ. 87, zool. ser., vol. 3, p. 246. December, 1903.

TYPE LOCALITY.—Santa Catalina Island, Santa Barbara Islands, California.

Reithrodontomys cherriei cherriei (Allen).

1891. *Hesperomys* (*Vesperimus*) *cherriei* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 211. April 17, 1891.

1895. *Reithrodontomys costaricensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 139. May 21, 1895. (La Carpintera, Costa Rica. Altitude, 6,000 feet.)

1907. *Reithrodontomys cherriei* OSGOOD, Proc. Biol. Soc. Washington, vol. 20, p. 50. April 18, 1907.

TYPE LOCALITY.—San José, Costa Rica.

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†*Reithrodontomys cherriei jalapæ (Merriam).

1901. *Reithrodontomys costaricensis jalapæ* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 552. November 29, 1901.

TYPE LOCALITY.—Jalapa, State of Vera Cruz, Mexico. Altitude, 4,000 feet.

†*Reithrodontomys chrysopsis chrysopsis Merriam.

1900. *Reithrodontomys chrysopsis* MERRIAM, Proc. Biol. Soc. Washington, vol. 13, p. 152. June 13, 1900.

TYPE LOCALITY.—Mount Popocatepetl, Mexico.

†*Reithrodontomys chrysopsis tolucæ Merriam.

1901. *Reithrodontomys chrysopsis tolucæ* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 549. November 29, 1901.

TYPE LOCALITY.—North slope of Volcan Toluca, State of Mexico, Mexico. Altitude, 11,500 feet.

*Reithrodontomys chrysotis Elliot.

1899. *Reithrodontomys chrysotis* ELLIOT, Field Columb. Mus., publ. 37, zool. ser., vol. 1, p. 281. May 9, 1899.

TYPE LOCALITY.—Dougherty, Washita River, Murray County, Oklahoma.

†*Reithrodontomys colimæ colimæ Merriam.

1901. *Reithrodontomys colimæ* MERRIAM Proc. Washington Acad. Sci., vol. 3, p. 551. November 29, 1901.

TYPE LOCALITY.—Near timberline, Sierra Nevada de Colima, State of Jalisco, Mexico. Altitude, 12,000 feet.

†*Reithrodontomys colimæ nerterus Merriam.

1901. *Reithrodontomys colimæ nerterus* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 551. November 29, 1901.

TYPE LOCALITY.—Foothill region of Sierra Nevada de Colima, State of Jalisco, Mexico. Altitude, 6,500 feet.

Reithrodontomys creper Bangs.

1902. *Reithrodontomys creper* BANGS, Bull. Mus. Comp. Zool., vol. 39, p. 39. April, 1902.

TYPE LOCALITY.—Volcan de Chiriqui, Chiriqui, Panama. Altitude, 11,000 feet.

†*Reithrodontomys difficilis Merriam.

1901. *Reithrodontomys difficilis* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 556. November 29, 1901.

TYPE LOCALITY.—Orizaba, State of Vera Cruz, Mexico. Altitude, 4,500 feet.

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†*Reithrodontomys dorsalis Merriam.

1901. *Reithrodontomys dorsalis* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 557. November 29, 1901.

TYPE LOCALITY.—Calel, Guatemala.

*Reithrodontomys dychei dychei Allen.

1895. *Reithrodontomys dychei* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 120. May 21, 1895.

TYPE LOCALITY.—Lawrence, Douglas County, Kansas.

†*Reithrodontomys dychei nebrascensis Allen.

1895. *Reithrodontomys dychei nebrascensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 122. May 21, 1895.

TYPE LOCALITY.—Kennedy, Cherry County, Nebraska.

*Reithrodontomys fulvescens (Allen).

1894. *Reithrodontomys mexicanus fulvescens* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 6, p. 319. November 7, 1894.

1895. *Reithrodontomys fulvescens* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 138. May 21, 1895.

TYPE LOCALITY.—Oposura, State of Sonora, Mexico.

†*Reithrodontomys goldmani Merriam.

1901. *Reithrodontomys goldmani* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 552. November 29, 1901.

TYPE LOCALITY.—Metlaltoyuca, State of Puebla, Mexico. Altitude, 800 feet.

†*Reithrodontomys griseoflavus griseoflavus Merriam.

1901. *Reithrodontomys griseoflavus* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 553. November 29, 1901.

TYPE LOCALITY.—Ameca, State of Jalisco, Mexico. Altitude, 4,000 feet.

†*Reithrodontomys griseoflavus helvolus Merriam.

1901. *Reithrodontomys griveoflavus helvolus* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 554. November 29, 1901.

TYPE LOCALITY.—Oaxaca City, State of Oaxaca, Mexico.

†*Reithrodontomys griseus Bailey.

1905. *Reithrodontomys griseus* BAILEY, North Amer. Fauna, No. 25, p. 106. October 24, 1905.

TYPE LOCALITY.—San Antonio, Bexar County, Texas.

*Reithrodontomys halicœtes Dixon.

1909. *Reithrodontomys halicœtes* DIXON, Univ. Calif. Publ. Zool. vol. 5, p. 271. August 14, 1909.

TYPE LOCALITY.—Three miles south of Petaluma, Sonoma, County, California.

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†*Reithrodontomys hirsutus Merriam.

1901. *Reithrodontomys hirsutus* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 553. November 29, 1901.

TYPE LOCALITY.—Ameca, State of Jalisco, Mexico. Altitude, 5,500 feet.

*Reithrodontomys humulis humulis (Audubon and Bachman).

1841. *Mus humulis* AUDUBON and BACHMAN, Proc. Acad. Nat. Sci. Philadelphia, p. 97.

1842. *Mus lecontii* AUDUBON and BACHMAN, Journ. Acad. Nat. Sci. Phila., vol. 8, pt. 2, p. 307. (Georgia; probably near Riceboro, Liberty County.)

1885. *Ochetodon humilis* TRUE, Proc. U. S. Nat. Mus., vol. 7, (1884), p. 598. 1885. (Part.)

1907. *Reithrodontomys humulis* OSGOOD, Proc. Biol. Soc. Washington, vol. 20, p. 49. April 18, 1907.

TYPE LOCALITY.—Charleston, South Carolina.

*Reithrodontomys humulis dickinsoni Rhoads.

1895. *Reithrodontomys humilis dickinsoni* RHOADS, Amer. Nat., vol. 29, p. 590. June, 1895.

TYPE LOCALITY.—Willow Oak, Pasco County, Florida.

*Reithrodontomys humulis impiger (Bangs).

1898. *Reithrodontomys lecontii impiger* BANGS, Proc. Biol. Soc. Washington, vol. 12, p. 167. August 10, 1898.

TYPE LOCALITY.—White Sulphur Springs, Greenbrier County, West Virginia.

†*Reithrodontomys klamathensis Merriam.

1899. *Reithrodontomys klamathensis* MERRIAM, North Amer. Fauna, No. 16, p. 93. October 28, 1899.

TYPE LOCALITY.—Big Spring (Mayten), Shasta Valley, Siskiyou County, California.

*Reithrodontomys laceyi Allen.

1896. *Reithrodontomys laceyi* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 8, p. 235. November 21, 1896.

TYPE LOCALITY.—Watson's Ranch, 15 miles south of San Antonio, Bexar County, Texas.

Regarded by Bailey (North Amer. Fauna, No. 25, p. 104, October 24, 1905) as identical with *R. intermedius* (*R. mexicanus intermedius*) ALLEN.

†*Reithrodontomys levipes levipes Merriam.

1901. *Reithrodontomys levipes* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 554. November 29, 1901.

TYPE LOCALITY.—San Sebastian, State of Jalisco, Mexico. Altitude, 3,000 feet.

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†*Reithrodontomys levipes otus Merriam.

1901. *Reithrodontomys levipes otus* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 555. November 29, 1901.

TYPE LOCALITY.—Foothill region of Sierra Nevada de Colima, State of Jalisco, Mexico. Altitude, 6,500 feet.

†*Reithrodontomys levipes toltecus Merriam.

1901. *Reithrodontomys levipes toltecus* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 555. November 29, 1901.

TYPE LOCALITY.—Tlalpam, Federal District, Mexico.

†*Reithrodontomys longicauda longicauda (Baird).

1857. *Reithrodon longicauda* BAIRD, Mamm. N. Amer., p. 451.

1885. *Ochetodon longicauda* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 598. 1885.

1895. *Reithrodontomys longicauda* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 129. May 21, 1895.

TYPE LOCALITY.—Petaluma, Sonoma County, California.

*Reithrodontomys longicauda pallidus (Rhoads).

1893. *Reithrodontomys pallidus* RHOADS, Amer. Nat., vol. 27, p. 835. September, 1893.

1895. *Reithrodontomys longicauda pallidus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 131. May 21, 1895.

TYPE LOCALITY.—Santa Ysabel, San Jacinto Mountains, San Diego County, California.

†*Reithrodontomys megalotis megalotis (Baird).

1857. *Reithrodon megalotis* BAIRD, Mamm. N. Amer., p. 451.

1893. *Reithrodontomys megalotis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 5, p. 79. April 28, 1893.

1893. *Reithrodontomys aztecus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 5, p. 79. April 28, 1893. La Plata, San Juan County, New Mexico. (See Allen, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 125, May 21, 1895.)

TYPE LOCALITY.—Between Janos and San Luis Springs, State of Sonora, Mexico, near border of Grant County, New Mexico.

†*Reithrodontomys megalotis deserti Allen.

1895. *Reithrodontomys megalotis deserti* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 127. May 21, 1895.

TYPE LOCALITY.—Oasis Valley, Nye County, Nevada.

†*Reithrodontomys megalotis obscurus Merriam.

1901. *Reithrodontomys megalotis obscurus* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 558. November 29, 1901.

TYPE LOCALITY.—Sierra Madre, near Guadalupe y Calvo, State of Chihuahua, Mexico.

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Reithrodontomys megalotis sestinensis Allen.

1903. *Reithrodontomys megalotis sestinensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 19, p. 602. November 12, 1903.

TYPE LOCALITY.—Rio Sestin, northwest Durango, Mexico.

†***Reithrodontomys megalotis zacatecæ** Merriam.

1901. *Reithrodontomys megalotis zacatecæ* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 557. November 29, 1901.

TYPE LOCALITY.—Valparaiso Mountains, State of Zacatecas, Mexico.

†***Reithrodontomys merriami** Allen.

1895. *Reithrodontomys merriami* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 119. May 21, 1895.

TYPE LOCALITY.—Austin Bayou, near Alvin, Brazoria County, Texas.

***Reithrodontomys mexicanus mexicanus** (Saussure).

1860. *Reithrodon mexicanus* SAUSSURE, Revue et magasin de zoologie, ser. 2, vol. 12, p. 109.

1885. *Ochetodon mexicanus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 598. 1885.

1895. *Reithrodontomys mexicanus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 135. May 21, 1895.

TYPE LOCALITY.—Mountains of Vera Cruz, Mexico.

†***Reithrodontomys mexicanus aurantius** Allen.

1895. *Reithrodontomys mexicanus aurantius* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 137. May 21, 1895.

TYPE LOCALITY.—Lafayette, Lafayette Parish, Louisiana.

***Reithrodontomys mexicanus gracilis** Allen and Chapman.

1897. *Reithrodontomys mexicanus gracilis* ALLEN and CHAPMAN, Bull. Amer. Mus. Nat. Hist., vol. 9, p. 9. February 23, 1897.

TYPE LOCALITY.—Chichenitza, Yucatan.

***Reithrodontomys mexicanus intermedius** Allen.

1895. *Reithrodontomys mexicanus intermedius* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 136. May 21, 1895.

TYPE LOCALITY.—Brownsville, Cameron County, Texas.

Regarded by Bailey (North Amer. Fauna, No. 25, p. 104, October 24, 1905) as a distinct species.

†***Reithrodontomys microdon microdon** Merriam.

1901. *Reithrodontomys microdon* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 548. November 29, 1901.

TYPE LOCALITY.—Todos Santos, Guatemala. Altitude, 10,000 feet.

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†*Reithrodontomys microdon albilabris Merriam.

1901. *Reithrodontomys microdon albilabris* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 549. November 29, 1901.

TYPE LOCALITY.—Cerro San Felipe, State of Oaxaca, Mexico. Altitude, 10,000 feet.

Reithrodontomys modestus Thomas.

1907. *Reithrodontomys modestus*, THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 20, p. 163. August, 1907.

TYPE LOCALITY.—Jinotega, Nicaragua. Altitude, 4,650 feet.

†*Reithrodontomys montanus (Baird).

1855. *Reithrodon montanus* BAIRD, Proc. Acad. Nat. Sci. Philadelphia, p. 335.

1885. *Ochetodon montanus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 598. 1885.

1893. *Reithrodontomys montanus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 5, p. 80. April 28, 1893.

TYPE LOCALITY.—Probably near the upper end of the San Luis Valley, Saguache County, Colorado. (See Allen, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 124, May 21, 1895.)

†*Reithrodontomys orizabæ Merriam.

1901. *Reithrodontomys orizabæ* MERRIAM, Proc. Washington. Acad. Sci., vol. 3, p. 550. November 29, 1901.

TYPE LOCALITY—Mount Orizaba, State of Puebla, Mexico. Altitude, 9,500 feet.

†*Reithrodontomys perotensis Merriam.

1901. *Reithrodontomys perotensis* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 550. November 29, 1901.

TYPE LOCALITY—Cofre de Perote, State of Vera Cruz, Mexico. Altitude, 9,500 feet.

*Reithrodontomys raviventris Dixon.

1908. *Reithrodontomys raviventris* DIXON, Proc. Biol. Soc. Washington, vol. 21, p. 197. October 20, 1908.

TYPE LOCALITY.—Redwood City, San Mateo County, California

*Reithrodontomys rufescens Allen and Chapman.

1897. *Reithrodontomys rufescens* ALLEN and CHAPMAN, Bull. Amer. Mus. Nat. Hist., vol. 9, p. 199. June 16, 1897.

TYPE LOCALITY.—Jalapa, State of Vera Cruz, Mexico.

*Reithrodontomys saturatus saturatus Allen and Chapman.

1897. *Reithrodontomys saturatus* ALLEN and CHAPMAN, Bull. Amer. Mus. Nat. Hist., vol. 9, p. 201. June 16, 1897.

TYPE LOCALITY.—Las Vigas, State of Vera Cruz, Mexico.

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†*Reithrodontomys saturatus alticola Merriam.

1901. *Reithrodontomys saturatus alticolus* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 556. November 29, 1901.

TYPE LOCALITY.—Cerro San Felipe, near Oaxaca, State of Oaxaca, Mexico. Altitude, 10,000 feet.

†*Reithrodontomys saturatus cinereus Merriam.

1901. *Reithrodontomys saturatus cinereus* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 556. November 29, 1901.

TYPE LOCALITY.—Chalchicomula, State of Puebla, Mexico.

*Reithrodontomys sumichrasti (Saussure).

1861. *Reithrodon sumichrasti* SAUSSURE, Revue et magasin de zoologie, ser. 2, vol. 13, p. 3.

1895. *Reithrodontomys sumichrasti* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 110. May 21, 1895.

TYPE LOCALITY.—Mexico, probably in the State of Vera Cruz, or Orizaba.

Regarded by Allen (Bull. Amer. Mus. Nat. Hist., vol. 7, p. 135, May 21, 1895) as identical with *R. mexicanus*.

*Reithrodontomys tenuis Allen.

1899. *Reithrodontomys tenuis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 12, p. 15. March 4, 1899.

TYPE LOCALITY.—Rosario, State of Sinaloa, Mexico.

†*Reithrodontomys tenuirostris tenuirostris Merriam.

1901. *Reithrodontomys tenuirostris* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 547. November 29, 1901.

TYPE LOCALITY.—Todos Santos, Guatemala. Altitude, 10,000 feet.

†*Reithrodontomys tenuirostris aureus Merriam.

1901. *Reithrodontomys tenuirostris aureus* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 548. November 29, 1901.

TYPE LOCALITY.—Calel, Guatemala. Altitude, 10,200 feet.

Genus BAIOMYS True.[1]

1894. *Baiomys* TRUE, Proc. U. S. Nat. Mus., vol. 16 (1893), p. 758. February 7, 1894. Type, *Hesperomys taylori* THOMAS.

*Baiomys taylori taylori (Thomas).

1887. *Hesperomys* (*Vesperimus*) *taylori* THOMAS, Ann. and Mag. Nat. Hist., ser. 5, vol. 19, p. 66. January, 1887.

TYPE LOCALITY.—San Diego, Duval County, Texas.

RANGE.—Southern Texas from the vicinity of Matagorda Bay westward to Bexar County and thence south to the Rio Grande; south into Nuevo Leon and thence to southern Tamaulipas. Lower Sonoran zone.

[1] Revised (as subgenus of *Peromyscus*) by Osgood, North Amer. Fauna, No. 28, pp. 252-260, April 17, 1909.

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†*Baiomys taylori subater (Bailey).

1905. *Peromyscus taylori subater* BAILEY, North Amer. Fauna, No. 25, p. 102. October 24, 1905.

TYPE LOCALITY.—Bernard Creek, near Columbia, Brazoria County, Texas.

RANGE.—Coast region of southeastern Texas from the vicinity of Matagorda Bay eastward. Austroriparian zone.

*Baiomys taylori paulus (Allen).

1903. *Peromyscus paulus* ALLEN, Bull. Am. Mus. Nat. Hist., vol. 19, p. 598. November 14, 1903.

†1904. *Peromyscus allex* OSGOOD, Proc. Biol. Soc. Washington, vol. 17, p. 76. March 21, 1904. (Colima, Colima, Mexico.)

TYPE LOCALITY.—Rio Sestin, northwestern Durango, Mexico.

RANGE.—Lower Sonoran and arid tropical parts of western Mexico, from central Chihuahua south and west through Durango, Sinaloa, and Jalisco to Colima.

†*Baiomys taylori analogus (Osgood).

1909. *Peromyscus taylori analogus* OSGOOD, North Amer. Fauna, No. 28, p. 256. April 17, 1909.

TYPE LOCALITY.—Zamora, Michoacan, Mexico.

RANGE.—West central Mexico, from Jalisco and Michoacan eastward to the Valley of Mexico.

†*Baiomys musculus musculus (Merriam).

1892. *Sitomys musculus* MERRIAM, Proc. Biol. Soc. Washington, vol. 7, p. 170. December 29, 1892.

TYPE LOCALITY.—Near city of Colima, State of Colima, Mexico.

RANGE.—Arid tropical parts of central and southern Mexico from the Isthmus of Tehuantepec north to central Vera Cruz and northwest to Colima and possibly to central Sinaloa.

*Baiomys musculus brunneus (Allen and Chapman).

1897. *Peromyscus musculus brunneus* ALLEN and CHAPMAN, Bull. Amer. Mus. Nat. Hist., vol. 9, p. 203. June 16, 1897.

TYPE LOCALITY.—Jalapa, State of Vera Cruz, Mexico.

RANGE.—East central Mexico, in slightly more humid parts than those inhabited by *B. musculus musculus*.

†*Baiomys musculus nigrescens (Osgood).

1904. *Peromyscus musculus nigrescens* OSGOOD, Proc. Biol. Soc. Washington, vol. 17, p. 76. March 21, 1904.

TYPE LOCALITY.—Valley of Comitan, Chiapas, Mexico.

RANGE.—Southern Mexico (State of Chiapas) and northern Guatemala.

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Genus PEROMYSCUS Gloger.

1841. *Peromyscus* GLOGER, Gemeinn. Hand.- u. Hilfsbuch d. Naturgesch., vol. 1, p. 95. Type, *Peromyscus arboreus* GLOGER = *Mus sylvaticus noveboracensis* FISCHER.

Subgenus HAPLOMYLOMYS Osgood.[1]

1904. *Haplomylomys* OSGOOD, Proc. Biol. Soc. Washington, vol. 17, p. 53. March 21, 1904. Type, *Hesperomys eremicus* BAIRD.

†***Peromyscus crinitus crinitus** (Merriam).

1891. *Hesperomys crinitus* MERRIAM, North Amer. Fauna, No. 5, p. 53. July 30, 1891.

1899. *Peromyscus crinitus scitulus* BANGS, Proc. New England Zool. Club, vol. 1, p. 67. July 31, 1899. (Gardnerville, Douglas County, Nevada.)

TYPE LOCALITY.—Shoshone Falls, Snake River, Lincoln County, Idaho.

RANGE.—Rocky cliffs and canyons of southern Idaho, eastern Oregon, eastern California, northern Nevada, and northwestern Utah. Upper Sonoran zone.

***Peromyscus crinitus auripectus** (Allen).

1893. *Sitomys auripectus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 5, p. 75. April 28, 1893.

1909. *Peromyscus crinitus auripectus* OSGOOD, North Amer. Fauna, No. 28, p. 231. April 17, 1909.

TYPE LOCALITY.—Bluff City, San Juan County, Utah.

RANGE.—Known from a limited number of localities in northeastern Arizona, southeastern Utah, and adjacent parts of Colorado and New Mexico.

†***Peromyscus crinitus stephensi** (Mearns).

1897. *Peromyscus stephensi* MEARNS, Proc. U. S. Nat. Mus., vol. 19, p. 721. July 30, 1897.

1903. *Peromyscus petraius* ELLIOTT, Field Columb. Mus., publ. 87, zool. ser., vol. 3, p. 244. December, 1903. (Lone Pine, Inyo County, California.)

1909. *Peromyscus crinitus stephensi* OSGOOD, North Amer. Fauna, No. 28, p. 232. April 17, 1909.

TYPE LOCALITY.—The lowest water, on the wagon road, in a canyon, at the eastern base of the Coast Range Mountains, San Diego County, California, near the Mexican boundary line.

RANGE.—Rocky situations in the lower Sonoran zone from northeastern Lower California northward to the desert valleys and ranges of the Death Valley region and eastward across southern Nevada to southwestern Utah and northwestern Arizona.

[1] Revised by Osgood, North Amer. Fauna, No. 28, pp. 228-252, April 17, 1909.

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***Peromyscus californicus californicus** (Gambel).

1848. *Mus californicus* GAMBEL, Proc. Acad. Nat. Sci. Philadelphia, vol. 4, p. 78. August, 1848.

1885. *Hesperomys californicus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 597. 1885.

1895. *Peromyscus californicus* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, p. 34. February 21, 1895.

TYPE LOCALITY.—Monterey, Monterey County, California.

RANGE.—Upper Sonoran and transition zones of the coast region of California from San Francisco Bay south to the vicinity of Santa Barbara, where intergradation with subspecies *insignis* occurs.

***Peromyscus californicus insignis** (Rhoads).

1895. *Peromyscus insignis* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, p. 33. February 21, 1895.

1907. *Peromyscus californicus insignis* MEARNS, Bull. U. S. Nat. Mus., No. 56, p. 429. April 13, 1907.

TYPE LOCALITY.—Dulzura, San Diego County, California.

RANGE.—Upper and lower Sonoran zones of the western valleys and foothills of southwestern California and thence south into northern Lower California.

†*Peromyscus eremicus eremicus (Baird).

1857. *Hesperomys eremicus* BAIRD, Mamm. N. Amer., p. 479.

1885. *Hesperomys leucopus eremicus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 597. 1885.

1895. *Peromyscus eremicus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 7, p, 226. June 29, 1895.

†1896. *Peromyscus eremicus arenarius* MEARNS, Proc. U. S. Nat. Mus., vol. 19, p. 138. May 25, 1896. (Near El Paso, Texas.)

†1896. *Peromyscus merriami* MEARNS, Proc. U. S. Nat. Mus., vol. 19, p. 138. May 25, 1896. (Sonoyta, Sonora, Mexico.)

TYPE LOCALITY.—Old Fort Yuma, Imperial County, California, opposite Yuma, Arizona.

RANGE.—Lower Sonoran zone of southeastern California and northeastern Lower California east of the mountain ranges as far south as the vicinity of San Luis Bay; eastward to western Texas, and south to border States of eastern Mexico; northward along the Colorado River, at least to the vicinity of the mouth of the Little Colorado, also extending from the Colorado River along the Virgin Valley to St. George, Utah, and northwestward, crossing southern Nevada, to the Death Valley region of California.

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***Peromyscus eremicus fraterculus** (Miller).

1892. *Vesperimus fraterculus* MILLER, Amer. Nat., vol. 26, p. 261. March, 1892.

1893. *Sitomys herroni* RHOADS, Amer. Nat., vol. 27, p. 832. September, 1893. (Reche Canyon, San Bernardino County, California.)

1894. *Sitomys herroni nigellus* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, p. 257. October 23, 1894. (West Cajon Pass, San Bernardino County, California.)

1898. *P[eromyscus] eremicus fraterculus* ALLEN, Bull. Amer. Mus. Nat. Hist., New York, vol. 10, p. 154. 1898.

1903. *Peromyscus homochroia* ELLIOT, Field Columb. Mus., publ. 74, zool. ser., vol. 3, p. 158. April, 1903. (San Quentin, Lower California, Mexico.)

TYPE LOCALITY.—Dulzura, San Diego County, California.

RANGE.—Extreme southwestern California, west of the mountains from the vicinity of Los Angeles south to northwestern Lower California.

***Peromyscus eremicus cedrosensis** (Allen).

1898. *Peromyscus cedrosensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 154. April 12, 1898.

1909. *Peromyscus eremicus cedrosensis* OSGOOD, North Amer. Fauna, No. 28, p. 244. April 17, 1909.

TYPE LOCALITY.—Cerros Island, Lower California, Mexico.

RANGE.—Cerros Island, Lower California.

***Peromyscus eremicus eva** (Thomas).

1898. *Peromyscus eva* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 1, p. 44. January, 1898.

1898. *Peromyscus eremicus propinquus* ALLEN, Bull. Amer. Mus. Nat. Hist., New York, vol. 10, p. 154. April 2, 1898. (San Pablo Point, Lower California, Mexico.)

1909. *Peromyscus eremicus eva* OSGOOD, North Amer. Fauna, No. 28, p. 245. April 17, 1909.

TYPE LOCALITY.—San José del Cabo, Lower California, Mexico.

RANGE.—Lower Sonoran zone of the central and southern part of the peninsula of Lower California, from Cape St. Lucas north to the vicinity of latitude 29° N., meeting the ranges of *P. e. eremicus* and *P. e. fraterculus*.

†*Peromyscus eremicus insulicola Osgood.

1909. *Peromyscus eremicus insulicola* OSGOOD, North Amer. Fauna, No. 28, p. 246. April 17, 1909.

TYPE LOCALITY.—Espiritu Santo Island, off east coast of southern Lower California, Mexico.

RANGE.—Confined to Espiritu Santo Island, Lower California.

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†*Peromyscus eremicus avius Osgood.

1909. *Peromyscus eremicus avius* OSGOOD, North Amer. Fauna, No. 28, p. 247. April 17, 1909.

TYPE LOCALITY.—Ceralbo Island, off east coast of southern Lower California, Mexico.

RANGE.—Confined to Ceralbo Island, Lower California.

†*Peromyscus eremicus polypolius Osgood.

1909. *Peromyscus eremicus polypolius* OSGOOD, North Amer. Fauna, No. 28, p. 248. April 17, 1909.

TYPE LOCALITY.—Margarita Island, off west coast of southern Lower California.

RANGE.—Confined to Margarita Island, Lower California.

†*Peromyscus eremicus anthonyi (Merriam).

1887. *Hesperomys* (*Vesperimus*) *anthonyi* MERRIAM, Proc. Biol. Soc. Washington, vol. 4, p. 2. April 15, 1887.

1907. *Peromyscus eremicus anthonyi* MEARNS, Bull. U. S. Nat. Mus., No. 56, p. 438. April 13, 1907.

TYPE LOCALITY.—Camp Apache, Big Hachita Mountains, Grant County, New Mexico.

RANGE.—Extreme southeastern Arizona and southwestern New Mexico in the vicinity of the Mexican boundary line and south through the State of Sonora west of the Sierra Madre to northern Sinaloa.

†*Peromyscus eremicus tiburonensis (Mearns).

1897. *Peromyscus tiburonensis* MEARNS, Proc. U. S. Nat. Mus., vol. 19, p. 720. June 30, 1897.

1909. *Peromyscus eremicus tiburonensis* OSGOOD, North Amer. Fauna, No. 28, p. 250. April 17, 1909.

TYPE LOCALITY.—Tiburon Island, Gulf of California, Mexico.

RANGE.—Tiburon Island and immediately adjacent mainland.

†*Peromyscus eremicus phæurus Osgood.

1904. *Peromyscus eremicus phæurus* OSGOOD, Proc. Biol. Soc. Washington, vol. 17, p. 75. March 21, 1904.

TYPE LOCALITY.—Hacienda la Parada, San Luis Potosi, Mexico.

RANGE.—Middle part of the Mexican table-land in the States of San Luis Potosi, Zacatecas, and Nuevo Leon.

†*Peromyscus eremicus carmeni Townsend.

1912. *Peromyscus eremicus carmeni* TOWNSEND, Bull. Amer. Mus. Nat. Hist., vol. 31, p. 126. June 14, 1912.

TYPE LOCALITY.—Carmen Island, Gulf of California, Mexico.

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†*Peromyscus guardia Townsend.

1912. *Peromyscus guardia* TOWNSEND, Bull. Amer. Mus. Nat. Hist., vol. 31, p. 126. June 14, 1912.

TYPE LOCALITY.—Angel de la Guardia Island, Gulf of California, Mexico.

†*Peromyscus stephani Townsend.

1912. *Peromyscus stephani* TOWNSEND, Bull. Amer. Mus. Nat. Hist., vol. 31, p. 126. June 14, 1912.

TYPE LOCALITY.—San Esteban Island, Gulf of California, Mexico.

†*Peromyscus goldmani Osgood.

1904. *Peromyscus goldmani* OSGOOD, Proc. Biol. Soc. Washington, vol. 17, p. 75. March 21, 1904.

TYPE LOCALITY.—Alamos, Sonora, Mexico.

Subgenus PEROMYSCUS Gloger.[1]

*Peromyscus maniculatus maniculatus (Wagner).

1845. *Hesperomys maniculatus* WAGNER, Wiegmann's Arch. f. Naturg., XI, vol. 1, p. 148.

1877. [*Hesperomys*] *arcticus* COUES, Monogr. N. Amer. Rodentia, pp. 61 and 67. (Labrador).

1877. [*Hesperomys*] *bairdii* COUES, Monogr. N. Amer. Rodentia, pp. 61 and 67. (Labrador).

1897. *Peromyscus canadensis umbrinus* MILLER, Proc. Boston Soc. Nat. Hist., vol. 28, p. 23. April, 1897. (Peninsula Harbor, north shore of Lake Superior, Ontario, Canada.)

1898. *Peromyscus maniculatus* BANGS, Amer. Nat., vol. 32, p. 496. July, 1898.

TYPE LOCALITY.—The Moravian Settlements in Labrador.

RANGE.—Hudsonian zone of northeastern Canada, from the northeastern coast of Labrador to the west side of Hudson Bay and south to the border of the Canadian zone to meet the range of *P. m. gracilis*.

†*Peromyscus maniculatus gracilis (LeConte).

1855. *Hesperomys gracilis* LECONTE, Proc. Acad. Nat. Sci. Philadelphia, vol. 7, p. 442.

1893. *Sitomys americanus canadensis* MILLER, Proc. Biol. Soc. Washington, vol. 8, p. 55. June 20, 1893. (Peterboro, Madison County, New York.)

1909. *Peromyscus maniculatus gracilis* OSGOOD, North Amer. Fauna, No. 28, p. 42. April 17, 1909.

TYPE LOCALITY.—Michigan.

RANGE.—Northeastern United States and southern Canada from northern Minnesota east through northern Wisconsin, Michigan, Ontario, Quebec, New York, and western New England. Canadian zone.

[1] Revised by Osgood, North Amer. Fauna, No. 28, pp. 33-218, April 17, 1909.

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***Peromyscus maniculatus abietorum** (Bangs).

1896. *Peromyscus canadensis abietorum* BANGS, Proc. Biol. Soc. Washington, vol. 10, p. 49. March 9, 1896.

1909. *Peromyscus maniculatus abietorum* OSGOOD, North Amer. Fauna, No. 28, p. 45. April 17, 1909.

TYPE LOCALITY.—James River, Nova Scotia.

RANGE.—Nova Scotia and neighboring parts of eastern Canada; west to central Maine.

***Peromyscus maniculatus argentatus** (Copeland and Church).

1906. *Peromyscus canadensis argentatus* COPELAND and CHURCH, Proc. Biol. Soc. Washington, vol. 19, p. 122. September 6, 1906.

1909. *Peromyscus maniculatus argentatus* OSGOOD, North Amer. Fauna, No. 29, p. 46. April 17, 1909.

TYPE LOCALITY.—Grand Harbor, island of Grand Manan, New Brunswick.

RANGE.—Island of Grand Manan, New Brunswick.

†*Peromyscus maniculatus eremus Osgood.

1909. *Peromyscus maniculatus eremus* OSGOOD, North Amer. Fauna, No. 28, p. 47. April 17, 1909.

TYPE LOCALITY.—Pleasant Bay, Grindstone Island, Magdalen Islands, Quebec.

***Peromyscus maniculatus nubiterræ** (Rhoads).

1896. *Peromyscus leucopus nubiterræ* RHOADS, Proc. Acad. Nat. Sci., Philadelphia, p. 187. April, 1896.

1909. *Peromyscus maniculatus nubiterræ* OSGOOD, North Amer. Fauna, No. 25, p. 47. April 17, 1909.

TYPE LOCALITY.—Summit of Roan Mountain, Mitchell County, North Carolina. Altitude 6,370 feet.

RANGE.—Allegheny and Blue Ridge Mountains and adjacent ranges from western Pennsylvania south to western North Carolina, and northeastern Georgia. Canadian zone.

***Peromyscus maniculatus borealis** Mearns.

1890. *Hesperomys leucopus arcticus* MEARNS, Bull. Amer. Mus. Nat. Hist., vol. 2, p. 285. February 21, 1890. Not *Hesperomys arcticus* Coues, 1877.

1900. *Peromyscus maniculatus arcticus* OSGOOD, North Amer. Fauna, No. 19, p. 33. October 6, 1900.

1911. *Peromyscus maniculatus borealis* MEARNS, Proc. Biol. Soc. Washington, vol. 24, p. 102. May 15, 1911. (Substitute for *arcticus* Mearns.)

TYPE LOCALITY.—Fort Simpson, Mackenzie, Canada.

RANGE.—Interior of northwest Canada; from southeastern Saskatchewan north along the Mackenzie River at least to Fort Norman; west to the upper waters of the Yukon, and thence south to eastern Alberta. Canadian and Hudsonian zones.

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***Peromyscus maniculatus oreas** (Bangs).

1898. *Peromyscus oreas* Bangs, Proc. Biol. Soc. Washington, vol. 12, p. 84. March 24, 1898.

1909. *Peromyscus maniculatus oreas* Osgood, North Amer. Fauna, No. 28, p. 51. April 17, 1909.

Type Locality.—Mount Baker Range, British Columbia, near boundary of Whatcom County, Washington. Altitude, 6,500 feet.

Range.—Mountains and coast of western Washington, north to southern British Columbia, south to Columbia River.

†*Peromyscus maniculatus hylæus (Osgood).

1908. *Peromyscus hylæus* Osgood, Proc. Biol. Soc. Washington, vol. 21, p. 141. June 9, 1908.

1909. *Peromyscus maniculatus hylæus* Osgood, North Amer. Fauna, No. 28, p. 53. April 17, 1909.

Type Locality.—Hollis, Kasaan Bay, Prince of Wales Island, Alaska.

Range.—Islands and coast of southeast Alaska west and northwest of the range of *P. m. macrorhinus*, including Prince of Wales, Kupreanof, Mithof, and Admiralty Islands, and the mainland coast from Lynn Canal to Frederick Sound.

***Peromyscus maniculatus keeni** (Rhoads).

1894. *Sitomys keeni* Rhoads, Proc. Acad. Nat. Sci. Philadelphia, p. 258. October, 1894.

1909. *Peromyscus maniculatus keeni* Osgood, North Amer. Fauna, No. 28, p. 55. April, 17, 1909.

Type Locality.—Masset, Graham Island, Queen Charlotte Islands, British Columbia, Canada.

Range.—Moresby and Graham Islands, Queen Charlotte Group, British Columbia.

†*Peromyscus maniculatus algidus Osgood.

1909. *Peromyscus maniculatus algidus* Osgood, North Amer. Fauna, No. 28, p. 56. April 17, 1909.

Type Locality.—Head of Lake Bennett (site of old Bennett City), British Columbia.

Range.—Region of the headwaters of the Yukon River from Lake Bennett to the lower part of the Lewes River.

***Peromyscus maniculatus macrorhinus** (Rhoads).

1894. *Sitomys macrorhinus* Rhoads, Proc. Acad. Nat. Sci. Philadelphia, p. 259. October, 1894.

1909. *Peromyscus maniculatus macrorhinus* Osgood, North Amer. Fauna, No. 28, p. 57. April 17, 1909.

Type Locality.—Skeena River, British Columbia, Canada.

Range.—Mainland coast of northern British Columbia and southern Alaska.

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***Peromyscus maniculatus artemisiæ** (Rhoads).

1894. *Sitomys americanus artemisiæ* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, p. 260. October, 1894.

1899. *Peromyscus texanus subarcticus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 12, p. 15. March 4, 1899. (Deerlodge County, Montana.)

1909. *Peromyscus maniculatus artemisiæ* OSGOOD, North Amer. Fauna, No. 28, p. 58. April 17, 1909.

TYPE LOCALITY.—Ashcroft, British Columbia.

RANGE.—South central British Columbia, northeastern Washington, northern Idaho, western Montana, and western Wyoming. Transition and Canadian zones.

***Peromyscus manitulatus saturatus** (Bangs).

1897. *Peromyscus texanus saturatus* BANGS, Amer. Nat., vol. 31, p. 75. January, 1897.

1909. *Peromyscus maniculatus saturatus* OSGOOD, North Amer. Fauna, No. 28, p. 61. April 17, 1909.

TYPE LOCALITY.—Saturna Island, in the Gulf of Georgia, halfway between Victoria and Vancouver City, British Columbia, Canada.

RANGE.—Confined to Saturna Island.

†*Peromyscus maniculatus hollisteri Osgood.

1903. *Peromyscus maniculatus hollisteri* OSGOOD, North Amer. Fauna, No. 28, p. 62. April 17, 1909.

TYPE LOCALITY.—Friday Harbor, San Juan Island, San Juan County, Washington.

†*Peromyscus maniculatus austerus (Baird).

1855. *Hesperomys austerus* BAIRD, Proc. Acad. Nat. Sci. Philadelphia, vol. 7, p. 336. April, 1855.

1899. *Peromyscus akeleyi* ELLIOT, Field Columb. Mus., publ. 30, zool. ser., vol. 1, p. 226. February 1, 1899. (Johnson's ranch, Elwah River, Olympic Mountains, Clallam County, Washington.)

1909. *Peromyscus maniculatus austerus* OSGOOD, North Amer. Fauna, No. 28, p. 63. April 17, 1909.

TYPE LOCALITY.—Old Fort Steilacoom, Pierce County, Washington.

RANGE.—Coast region of Puget Sound, Washington; north to southern British Columbia and including Vancouver Island.

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†*Peromyscus maniculatus rubidus (Osgood).

1901. *Peromyscus oreas rubidus* OSGOOD, Proc. Biol. Soc. Washington, vol. 14, p. 193. December 12, 1901.

1903. *Peromyscus perimekurus* ELLIOT, Field Columb. Mus., publ. 74, zool. ser., vol. 3, p. 156. April, 1903. (Goldbeach, Curry County, Oregon.)

1909. *Peromyscus maniculatus rubidus* OSGOOD, North Amer. Fauna, No. 28, p. 65. April 17, 1909.

TYPE LOCALITY.—Mendocino City, California.

RANGE.—Coast of California and Oregon from San Francisco Bay to the mouth of the Columbia River.

†*Peromyscus maniculatus gambelii (Baird).

1857. *Hesperomys gambelii* BAIRD, Mamm. North Amer., p. 464. 1857.

1893. *Sitomys americanus thurberi* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 5, p. 185. August 18, 1893. (San Pedro Martir Mountains, Lower California, Mexico.)

†1896. *Peromyscus texanus medius* MEARNS, Proc. U. S. Nat. Mus., vol. 18, p. 446. March 25, 1896. (Nachoguero Valley, Lower California, Mexico.)

1909. *Peromyscus maniculatus gambeli* OSGOOD, North Amer. Fauna, No. 28, p. 67. April 17, 1909.

TYPE LOCALITY.—Monterey, California.

RANGE.—Central Washington east of the Cascades, thence south through central and eastern Oregon to California; through California except the "redwood strip" of the northwest coast and except the southeastern desert region and the region east of the Sierra; south into northwestern Lower California. Upper Sonoran to Hudsonian zone.

†*Peromyscus maniculatus rufinus (Merriam).

1890. *Hesperomys leucopus rufinus* MERRIAM, North Amer. Fauna, No. 3, p. 65. September 11, 1890.

1909. *Peromyscus maniculatus rufinus* OSGOOD, North Amer. Fauna, No. 28, p. 72. April 17, 1909.

TYPE LOCALITY.—San Francisco Mountain, Coconino County, Arizona. Altitude, 9,000 feet.

RANGE.—Southern Rocky Mountain region, including the elevated part of New Mexico, scattered peaks and ranges in Arizona, eastern Utah, and the greater part of western and central Colorado. Transition to boreal zones.

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***Peromyscus maniculatus osgoodi** Mearns.

1890. *Hesperomys leucopus nebrascensis* MEARNS, Bull. Amer. Mus. Nat. Hist., vol. 2, p. 285. Described on page 287. February 21, 1890. (Not *Hesperomys sonoriensis* var. *nebrascensis* COUES, 1877.)

1911. *Peromyscus maniculatus osgoodi* MEARNS, Proc. Biol. Soc. Washington, vol. 24, p. 102. May 15, 1911. (Substitute for *nebrascensis* Mearns.)

TYPE LOCALITY.—Calf Creek, Custer County, Montana.

RANGE.—Plains and foothills along the eastern base of the Rocky Mountains from south central Saskatchewan to the Panhandle of Texas, occupying in general the eastern parts of Montana, Wyoming, and Colorado, and the western and southwestern parts of Saskatchewan and the Dakotas. Upper Sonoran and transition zones.

***Peromyscus maniculatus nebrascensis** (Coues).

1877. *Hesperomys sonoriensis* var. *nebrascensis* COUES, Monogr. N. Amer. Rodentia, p. 79.

†1905. *Peromyscus luteus* OSGOOD, Proc. Biol. Soc. Washington, vol. 18, p. 78. February 21, 1905.

1911. *Peromyscus maniculatus nebrascensis* MEARNS, Proc. Biol. Soc. Washington, vol. 24, p. 102. May 15, 1911.

TYPE LOCALITY.—Deer Creek, western Nebraska.

RANGE.—Sandhill region of western Nebraska and adjoining parts of the States of Kansas, Colorado, South Dakota, and Wyoming. Possibly extending north to western North Dakota and south to western Oklahoma.

***Peromyscus maniculatus bairdii** (Hoy and Kennicott).

1857. *Mus bairdii* HOY and KENNICOTT, in Kennicott, Agricultural Report, U. S. Patent Office, 1856, p. 92.

1885. *Hesperomys michiganensis* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 597. 1885.

1909. *Peromyscus maniculatus bairdi* OSGOOD, North Amer. Fauna, No. 28, p. 79. April 17, 1909.

TYPE LOCALITY.—Bloomington, McLean County, Illinois.

RANGE.—Prairie region of the upper Mississippi Valley in southern Wisconsin, Minnesota, Illinois, Indiana, eastern Ohio, Iowa, Missouri, Oklahoma, and the eastern or humid parts of Kansas, Nebraska, South Dakota, and North Dakota; north to southern Manitoba. Upper Austral and transition zones, meeting the range of *P. m. nebrascensis* along the border between the humid and the arid subdivision.

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***Peromyscus maniculatus pallescens** (Allen).

1896. *Peromyscus michiganensis pallescens* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 8, p. 238. November 21, 1896.

1909. *Peromyscus maniculatus pallescens* OSGOOD, North Amer. Fauna, No. 28, p. 83. April 17, 1909.

TYPE LOCALITY.—San Antonio, Bexar County, Texas.

RANGE.—Central Texas, from the vicinity of the northern boundary at Gainesville south to the region immediately west of Corpus Christi Bay. Lower Sonoran zone.

†*Peromyscus maniculatus blandus. (Osgood).

1904. *Peromyscus sonoriensis blandus* OSGOOD, Proc. Biol. Soc. Washington, vol. 17, p. 56. March 21, 1904.

1909. *Peromyscus maniculatus blandus* OSGOOD, North Amer. Fauna, No. 28, p. 84. April 17, 1909.

TYPE LOCALITY.—Escalon, Chihuahua, Mexico.

RANGE.—Lower Sonoran zone of western Texas from the Pecos Valley westward; north along the Pecos Valley and other lower Sonoran valleys of southern New Mexico to about latitude 34° north; south in Mexico east of the Sierra Madre in Chihuahua, southern Coahuila, southwestern Nuevo Leon, western Tamaulipas, northwestern San Luis Potosi, Durango, and Zacatecas.

†*Peromyscus maniculatus fulvus (Osgood).

1904. *Peromyscus sonoriensis fulvus* OSGOOD, Proc. Biol. Soc. Washington, vol. 17, p. 57. March 21, 1904.

1909. *Peromyscus maniculatus fulvus* OSGOOD, North Amer. Fauna, No. 28, p. 86. April 17, 1909.

TYPE LOCALITY.—Oaxaca, Oaxaca, Mexico.

RANGE.—Southeastern Mexico, in parts of the States of Oaxaca, Puebla, Vera Cruz, Tlaxcala, and Hidalgo, extending from Oaxaca City north to the vicinity of Pachuca, Hidalgo. Lower Sonoran zone.

***Peromyscus maniculatus labecula** (Elliot).

1903. *Peromyscus labecula* ELLIOT, Field Columb. Mus., publ. 71, zool. ser., vol. 3, p. 143. March, 1903.

1909. *Peromyscus maniculatus labecula* OSGOOD, North Amer. Fauna, No. 28, p. 87. April 17, 1909.

TYPE LOCALITY.—Ocotlan, Jalisco, Mexico.

RANGE.—Southwestern and south central Mexico, chiefly in the States of Jalisco, Guanajuato, and Mexico. Lower Sonoran and upper Sonoran zones.

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†*Peromyscus maniculatus sonoriensis (LeConte).

1853. *Hesperomys sonoriensis* LeConte, Proc. Acad. Nat. Sci. Philadelphia, p. 413.

1885. *Hesperomys leucopus sonoriensis* True, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 597. 1885. (Part.)

1890. *Hesperomys leucopus deserticolus* Mearns, Bull. Amer. Mus. Nat. Hist., vol. 2, p. 285. Described on page 287. February 21, 1890. (Mohave Desert, San Bernardino County, California.)

1894. *Sitomys insolatus* Rhoads, Proc. Acad. Nat. Sci. Philadelphia, p. 256. October, 1894. (Oro Grande, Mohave Desert, Kern County, California.)

1903. *Peromyscus oresterus* Elliot, Field Columb. Mus., publ. 74, zool. ser., vol. 3, p. 159. April, 1903. (Vallecitos, San Pedro Martir Mountains, Lower California, Mexico.)

1909. *Peromyscus maniculatus sonoriensis* Osgood, North Amer. Fauna, No. 28, p. 89. April 17, 1909.

Type Locality.—Santa Cruz, State of Sonora, Mexico.

Range.—Great Basin region in general. Northern Sonora, southern and western Arizona and Utah, exclusive of the higher mountains, northeastern Lower California east of the San Pedro Martir Mountains, southern and eastern California east of the Sierra Nevada and the San Bernardino and associated ranges, practically all of Nevada, and parts of southeastern Oregon and south-central Idaho.

*Peromyscus maniculatus coolidgei (Thomas).

1898. *Peromyscus leucopus coolidgei* Thomas, Ann. and Mag. Nat. Hist., ser. 7, vol. 1, p. 45. January, 1898.

1909. *Peromyscus maniculatus coolidgei* Osgood, North Amer. Fauna, No. 28, p. 94. April 17, 1909.

Type Locality.—Santa Anita, Cape Region of Lower California, Mexico.

Range.—Greater part of the peninsula of Lower California from Cape St. Lucas northward to the vicinity of the southern base of the San Pedro Martir Mountains.

†*Peromyscus maniculatus margaritæ Osgood.

1905. *Peromyscus maniculatus margaritæ* Osgood, North Amer. Fauna, No. 28, p. 95. April 17, 1909.

Type Locality.—Margarita Island, off west coast of southern Lower California, Mexico.

Range.—Known only from Margarita Island.

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†*Peromyscus maniculatus clementis (Mearns).

1906. *Peromyscus texanus clementis* MEARNS, Proc. U. S. Nat. Mus., vol. 18, p. 446. March 25, 1906.

1909. *Peromyscus maniculatus clementis* OSGOOD, North Amer. Fauna, No. 28, p. 96. April 17, 1909.

TYPE LOCALITY.—San Clemente Island, Los Angeles County, California.

RANGE.—Outer islands of the Santa Barbara group, off the coast of southern California, including San Clemente, Santa Barbara, San Nicolas, Santa Rosa, and San Miguel Islands.

*Peromyscus maniculatus catalinæ (Elliot).

1903. *Peromyscus catalinæ* ELLIOT, Field Columb. Mus., publ. 74, zool. ser., vol. 3, p. 160. April, 1903.

1909. *Peromyscus maniculatus catalinæ* OSGOOD, North Amer. Fauna, No. 28, p. 97. April 17, 1909.

TYPE LOCALITY.—Santa Catalina Island, Los Angeles County, California.

RANGE.—Santa Catalina and Santa Cruz Islands, Santa Barbara group, off the coast of southern California.

*Peromyscus maniculatus dubius (Allen).

1898. *Peromyscus dubius* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 157. April 12, 1898.

1909. *Peromyscus maniculatus dubius* OSGOOD, North Amer. Fauna, No. 28, p. 98. April 17, 1909.

TYPE LOCALITY.—Todos Santos Island, Lower California, Mexico.

RANGE.—Known from Todos Santos and Coronados Islands off west coast of northern Lower California, Mexico.

*Peromyscus maniculatus geronimensis (Allen).

1898. *Peromyscus geronimensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 5, p. 156. April 12, 1898.

1898. *Peromyscus exiguus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 157. April 12, 1898. (San Martin Island, Lower California, Mexico.)

1909. *Peromyscus maniculatus geronimensis* OSGOOD, North Amer. Fauna, No. 28, p. 99. April 17, 1909.

TYPE LOCALITY.—San Geronimo Island, Lower California, Mexico.

RANGE.—Known from various islands off the west coast of the northern half of Lower California, including San Martin, San Geronimo, and Natividad Islands.

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Peromyscus maniculatus cineritius (Allen).

1898. *Peromyscus cineritius* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 155. April 12, 1898.

1909. *Peromyscus maniculatus cineritius* OSGOOD, North Amer. Fauna, No. 28, p. 100. April 17, 1909.

TYPE LOCALITY.—San Roque Island, Lower California, Mexico.

RANGE.—Confined to San Roque Island.

†***Peromyscus maniculatus magdalenæ** Osgood.

1909. *Peromyscus maniculatus magdalenæ* OSGOOD, North Amer. Fauna, No. 28, p. 101. April 17, 1909.

TYPE LOCALITY.—Magdalena Island, off west coast of southern Lower California, Mexico.

RANGE.—Magdalena Island and a narrow strip of the adjacent mainland of the peninsula of Lower California.

†***Peromyscus sitkensis sitkensis** Merriam.

1897. *Peromyscus sitkensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 223. July 15, 1897.

TYPE LOCALITY.—Sitka, Alaska.

RANGE.—Baranof and Chichagof Islands, Alaska.

†***Peromyscus sitkensis prevostensis** (Osgood).

1901. *Peromyscus prevostensis* OSGOOD, North Amer. Fauna, No. 21, p. 29. September 26, 1901.

1909. *Peromyscus sitkensis prevostensis* OSGOOD, North Amer. Fauna, No. 28, p. 102. April 17, 1909.

TYPE LOCALITY.—Prevost Island, Queen Charlotte Group, British Columbia.

RANGE.—Prevost Island.

***Peromyscus polionotus polionotus** (Wagner).

1843. *Mus polionotus* WAGNER, Wiegmann's Arch. f. Naturg., IX, vol. 2, p. 52. 1843.

1893. *Sitomys niveiventris subgriseus* CHAPMAN, Bull. Amer. Mus. Nat. Hist., vol. 5, p. 341. December 22, 1893. (Gainesville, Alachua County, Florida.)

1898. *Peromyscus subgriseus arenarius* BANGS, Proc. Boston Soc. Nat. Hist., vol. 28, p. 202. March, 1898. (Hursman Lake, Scriven County, Georgia.) Not *P. eremicus arenarius* MEARNS, 1896.

1898. *Peromyscus subgriseus baliolus* BANGS, Science, n. s., vol. 8, p. 214. August 19, 1898. (Substitute for *arenarius* Bangs.)

1907. *Peromyscus polionotus* OSGOOD, Proc. Biol. Soc. Washington, vol. 20, p. 49. April 18, 1907.

TYPE LOCALITY.—Georgia.

RANGE.—Open fields of the interior of northern Florida and southern Georgia.

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***Peromyscus polionotus niveiventris** (Chapman).

1889. *Hesperomys niveiventris* CHAPMAN, Bull. Amer. Mus. Nat. Hist., vol. 2, p. 117. June 7, 1889.

1909. *Peromyscus polionotus niveiventris* OSGOOD, North Amer. Fauna, No. 28, p. 105. April 17, 1909.

TYPE LOCALITY.—On the east peninsula, opposite Micco, Brevard County, Florida.

RANGE.—Sandy beach region of the eastern coast of Florida.

Peromyscus polionotus phasma (Bangs).

1898. *Peromyscus phasma* BANGS, Proc. Boston Soc. Nat. Hist., vol. 28, p. 199. March, 1898.

1909. *Peromyscus polionotus phasma* OSGOOD, North Amer. Fauna, No. 28, p. 107. April 17, 1909.

TYPE LOCALITY.—Point Romo, Anastasia Island, St. John County, Florida.

Peromyscus polionotus rhoadsi (Bangs).

1898. *Peromyscus subgriseus rhoadsi* BANGS, Proc. Boston Soc. Nat. Hist., vol. 28, p. 201. March, 1898.

1909. *Peromyscus polionotus rhoadsi* OSGOOD, North Amer. Fauna, No. 28, p. 107. April 17, 1909.

TYPE LOCALITY.—Anclote River, Hillsboro County, Florida.

RANGE.—West central Florida, in the vicinity of Tampa Bay.

***Peromyscus polionotus albifrons** Osgood.

1909. *Peromyscus polionotus albifrons* OSGOOD, North Amer. Fauna, No. 28, p. 108. April 17, 1909.

TYPE LOCALITY.—Whitfield, Walton County, Florida.

RANGE.—Coast of western Florida and Alabama.

***Peromyscus melanotis** Allen and Chapman.

1897. *Peromyscus melanotis* ALLEN and CHAPMAN, Bull. Amer. Mus. Nat. Hist., vol. 9, p. 203. June 16, 1897.

1903. *Peromyscus cecilii* THOMAS, Ann. and Mag. Nat. Hist., London, ser. 7, vol. 11, p. 486. May, 1903. (South slope of Mount Orizaba, Puebla, Mexico.)

†1904. *Peromyscus melanotis zamelas* OSGOOD, Proc. Biol. Soc. Washington, vol. 17, p. 59. March 21, 1904. (Colonia Garcia, Chihuahua, Mexico.)

TYPE LOCALITY.—Las Vigas, Vera Cruz, Mexico.

RANGE.—Higher slopes of the principal mountains of Mexico north of the States of Guerrero and Oaxaca. Extending along the Cordillera of Vera Cruz; westward from Mount Popocatepetl to the Sierra Nevada de Colima, and northward into the Sierra Madre of Durango and Chihuahua. Transition and Canadian zones, from 7,000 to 12,000 feet altitude.

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***Peromyscus leucopus leucopus** (Rafinesque.)

1818. *Musculus leucopus* RAFINESQUE, American Monthly Magazine, vol. 3, p. 446. October, 1818.

1885. *Hesperomys leucopus leucopus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 597. 1885. (Part.)

1895. *Peromyscus leucopus* THOMAS, Ann. and Mag. Nat. Hist., ser. 6, vol. 6, p. 192. February, 1895.

TYPE LOCALITY.—Pine barrens of Kentucky.

RANGE.—Western Kentucky south to southern Louisiana, west to Indian Territory, and east around the southern end of the Allegheny Mountains to eastern Virginia. Lower austral zone.

***Peromyscus leucopus noveboracensis** (Fischer).

1829. [*Mus sylvaticus*] *δ noveboracensis*, FISCHER, Synopsis Mammalium, p, 318.

1897. *Peromyscus leucopus noveboracensis* MILLER, Proc. Boston Soc. Nat. Hist., vol. 28, p. 22. April 30, 1897.

†1901. *Peromyscus leucopus minnesotæ* MEARNS, Proc. Biol. Soc. Washington, vol. 14, p. 154. August 9, 1901. (Fort Snelling, Hennepin County, Minnesota.)

TYPE LOCALITY.—New York.

RANGE.—Upper austral and transition zones of the eastern United States and Canada. Extending from Nova Scotia to central Minnesota, thence south through the humid parts of eastern Nebraska and Kansas and eastward to the Atlantic coast, following quite closely the boundary between the lower and upper austral zones on the south and that between the transition and Canadian on the north.

Peromyscus leucopus ammodytes Bangs.

1905. *Peromyscus leucopus ammodytes* BANGS, Proc. New England Zool. Club, vol. 4, p. 14. February 28, 1905.

TYPE LOCALITY.—Monomoy Island, Barnstable County, Massachusetts.

Peromyscus leucopus fusus Bangs.

1905. *Peromyscus leucopus fusus* BANGS, Proc. New England Zool. Club, vol. 4, p. 13. February 28, 1905.

TYPE LOCALITY.—West Tisbury, island of Marthas Vineyard, off south coast of Massachusetts.

RANGE.—Island of Marthas Vineyard, Massachusetts.

†***Peromyscus leucopus aridulus** Osgood.

1909. *Peromyscus leucopus aridulus* OSGOOD, North Amer. Fauna, No. 28, p. 122. April 17, 1909.

TYPE LOCALITY.—Fort Custer, Yellowstone County, Montana.

RANGE.—Upper Sonoran zone of eastern Montana and Wyoming and the adjoining western parts of South Dakota and Nebraska; probably south to Oklahoma and west to eastern Colorado.

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†*Peromyscus leucopus ochraceus Osgood.

1909. *Peromyscus leucopus ochraceus* OSGOOD, North Amer. Fauna, No. 28, p. 124. April 17, 1909.

TYPE LOCALITY.—Winslow, Navajo County, Arizona.

†*Peromyscus leucopus tornillo (Mearns).

1896. *Peromyscus tornillo* MEARNS, Preliminary diagnoses of new mammals from the Mexican border of the United States, p. 3. March 25, 1896. (Reprint: Proc. U. S. Nat. Mus., vol. 18, p. 445. May 23, 1896.)

1903. *Peromyscus texanus flaccidus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 19, p. 599. November 14, 1903. (Rio Sestin, northwestern Durango, Mexico.)

1909. *Peromyscus leucopus tornillo* OSGOOD, North Amer. Fauna No. 28, p. 125. April 17, 1909.

TYPE LOCALITY.—Rio Grande, about 6 miles above El Paso, El Paso County, Texas.

RANGE.—Upper Sonoran zone and part of the lower Sonoran of western Texas and eastern New Mexico; north to southeastern Colorado and south to northern Durango; northeast to western Oklahoma.

*Peromyscus leucopus arizonæ (Allen).

1894. *Sitomys americanus arizonæ* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 6, p. 321. November 7, 1894.

1909. *Peromyscus leucopus arizonæ* OSGOOD, North Amer. Fauna No. 28, p. 126. April 17, 1909.

TYPE LOCALITY.—Fairbank, Cochise County, Arizona.

RANGE.—Southeastern Arizona and adjacent parts of Mexico and New Mexico.

†*Peromyscus leucopus texanus (Woodhouse).

1853. *Hesperomys texanus* WOODHOUSE, Proc. Acad. Nat. Sci. Philadelphia, vol. 6, p. 242. February, 1853.

1891. *Vesperimus mearnsii* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 300. June 30, 1891. (Brownsville, Cameron County, Texas.)

†1896. *Peromyscus canus* MEARNS, Preliminary diagnoses of new mammals from the Mexican border of the United States, p. 3. March 25, 1896. (Reprint: Proc. U. S. Nat. Mus., vol. 18, p. 445. May 23, 1896.) Fort Clark, Kinney County, Texas.

1909. *Peromyscus leucopus texanus* OSGOOD, North Amer. Fauna, No. 28, p. 126. April 17, 1909.

TYPE LOCALITY.—Probably the vicinity of Mason, Mason County, Texas.

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Peromyscus leucopus texanus—Continued.

RANGE.—Southern Texas and eastern Mexico, chiefly in the States of Tamaulipas and Nuevo Leon; extending west to the vicinity of the mouth of the Pecos River, north to about latitude 33° north, east to west side of Galveston Bay, and south to State of San Luis Potosi. Lower Sonoran zone.

†***Peromyscus leucopus mesomelas** (Osgood).

1904. *Peromyscus texanus mesomelas* OSGOOD, Proc. Biol. Soc. Washington, vol. 17, p. 57. March 21, 1904.

1909. *Peromyscus leucopus mesomelas* OSGOOD, North Amer. Fauna, No. 28, p. 132. April 17, 1909.

TYPE LOCALITY.—Orizaba, Vera Cruz, Mexico.

RANGE.—Humid tropics of central Vera Cruz and northern Puebla, Mexico.

†***Peromyscus leucopus castaneus** (Osgood).

1904. *Peromyscus texanus castaneus* OSGOOD, Proc. Biol. Soc. Washington, vol. 17, p. 58. March 21, 1904.

1909. *Peromyscus leucopus castaneus* OSGOOD, North Amer. Fauna, No. 28, p. 133. April 17, 1909.

TYPE LOCALITY.—Yohaltun, Campeche, Mexico.

†***Peromyscus leucopus affinis** (Allen).

1891. *Hesperomys* (*Vesperimus*) *affinis* ALLEN, Proc. U. S. Nat. Mus., vol. 14, p. 195. July 24, 1891.

†1898. *Peromyscus musculoides* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 124. April 30, 1898. (Cuicatlan, State of Oaxaca, Mexico.)

1909. *Peromyscus leucopus affinis* OSGOOD, North Amer. Fauna No. 28, p. 133. April 17, 1909.

TYPE LOCALITY.—Barrio, State of Oaxaca, Mexico. (See Allen and Chapman, Bull. Amer. Mus. Nat. Hist., vol. 9, p. 7, February 23, 1897.)

RANGE.—Arid tropical parts of southern and central Oaxaca; northeast to southern Vera Cruz and parts of Yucatan.

†***Peromyscus leucopus cozumelæ** (Merriam).

1901. *Peromyscus cozumelæ* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 103. July 19, 1901.

1909. *Peromyscus leucopus cozumelæ* OSGOOD, North Amer. Fauna, No. 28, p. 135. April 17, 1909.

TYPE LOCALITY.—Cozumel Island, off coast of Yucatan, Mexico.

RANGE.—Cozumel Island.

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†*Peromyscus gossypinus gossypinus (LeConte).

1853. *Hesperomys gossypinus* LeConte, Proc. Acad. Nat. Sci. Philadelphia, vol. 6, p. 411.

1885. *Hesperomys leucopus gossypinus* True, Proc. U. S. Nat. Mus., vol. 7 (1894), p. 597. 1895.

1896. *Peromyscus gossypinus* Rhoads, Proc. Acad. Nat. Sci. Philadelphia, p. 189. April 21, 1896.

1896. *Peromyscus gossypinus nigriculus* Bangs, Proc. Biol. Soc. Washington, vol. 10, p. 124. November 5, 1896. (Burbridge, Plaquemines Parish, Louisiana.)

Type Locality.—Georgia; probably the LeConte Plantation, near Riceboro, Liberty County. (See Bangs, Proc. Biol. Soc. Washington, vol. 10, p. 123, November 5, 1896.)

Range.—Lowlands of the southeastern United States from the Dismal Swamp, Virginia, to northern Florida and west to Louisiana. Lower austral zone.

*Peromyscus gossypinus megacephalus (Rhoads).

1894. *Sitomys megacephalus* Rhoads, Proc. Acad. Nat. Sci. Philadelphia, p. 254. October, 1894.

1896. *Peromyscus megacephalus* Rhoads, Proc. Acad. Nat. Sci. Philadelphia, p. 191. April, 1896.

1896. *Peromyscus gossypinus mississippiensis* Rhoads, Proc. Acad. Nat. Sci. Philadelphia, p. 189. April 21, 1896. (Samburg, Reelfoot Lake, Obion County, Tennessee.)

1909. *Peromyscus gossypinus megacephalus* Osgood, North Amer. Fauna, No. 28, p. 138. April 17, 1909.

Type Locality.—Woodville, Jackson County, Alabama.

Range.—Northern Alabama and western Tennessee, west through Arkansas to eastern Oklahoma, and thence south through eastern Texas and western Louisiana.

*Peromyscus gossypinus palmarius Bangs.

1896. *Peromyscus gossypinus palmarius* Bangs, Proc. Biol. Soc. Washington, vol. 10, p. 124. November 5, 1896.

Type Locality.—Oak Lodge, on the east peninsula opposite Micco, Brevard County, Florida.

Range.—Peninsular Florida.

Peromyscus gossypinus anastasæ (Bangs).

1898. *Peromyscus anastasæ* Bangs, Proc. Boston Soc. Nat. Hist., vol. 28, p. 195. March, 1898.

1898. *Peromyscus insulanus* Bangs, Proc. Boston Soc. Nat. Hist., vol. 28, p. 196. March, 1898. (Cumberland Island, Georgia.)

1909. *Peromyscus gossypinus anastasæ* Osgood, North Amer. Fauna, No. 28, p. 141. April 17, 1909.

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Peromyscus gossypinus anastasæ—Continued.

TYPE LOCALITY.—Point Romo, Anastasia Island, St. John County, Florida.

RANGE.—Sandy islands, possibly also parts of the mainland, of the eastern coast of Georgia and Florida.

†***Peromyscus boylii boylii** (Baird).

1855. *Hesperomys boylii* BAIRD, Proc. Acad. Nat. Sci. Philadelphia, vol. 7, p. 335. April, 1855.

1893. *Sitomys robustus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 5, p. 335. December 16, 1893. (Lakeport, Lake County, California.)

1896. *Peromyscus boylii* MEARNS, Preliminary diagnoses of new mammals from the Mexican border of the United States, p. 3. May 25, 1896. (Reprint: Proc. U. S. Nat. Mus., vol. 19, p. 139. December 21, 1896.)

TYPE LOCALITY.—Middle Fork of American River, near present town of Auburn, Eldorado County, California.

RANGE.—West slopes of the Sierra Nevada Mountains from the vicinity of Yosemite north to Mount Shasta, thence along the east slopes of the coast ranges nearly to San Francisco Bay. Upper Sonoran and transition zones.

***Peromyscus boylii rowleyi** (Allen).

1893. *Sitomys rowleyi* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 5, p. 76. April 28, 1893.

1893. *Sitomys major* RHOADS, Amer. Nat., vol. 27, p. 831. September, 1893. (Squirrel Inn, San Bernardino County, California.)

1893. *Sitomys rowleyi pinalis* MILLER, Bull. Amer. Mus. Nat. Hist., vol. 5, p. 331. December 16, 1893. (Granite Gap, Grant County, New Mexico.)

1896. *Peromyscus boylii rowleyi* MEARNS, Proc. U. S. Nat. Mus., vol. 19, p. 139. May 25, 1896.

†1896. *Peromyscus boylii penicillatus* MEARNS, Proc. U. S. Nat. Mus., vol. 19, p. 139. May 25, 1896. (Franklin Mountains, near El Paso, Texas.)

1903. *Peromyscus gaurus* ELLIOT, Field Columb. Mus., publ. 74, zool. ser., vol. 3, p. 157. April, 1903. (San Antonio, San Pedro Martir Mountains, Lower California, Mexico.)

1904. *Peromyscus parasiticus* ELLIOT, Field Columb. Mus., publ. 87, zool. ser., vol. 3, p. 244. January, 1904. (Lone Pine, Inyo County, California.)

1904. *Peromyscus metallicola* ELLIOT, Field Columb. Mus., publ. 87, zool. ser., vol. 3, p. 245. January, 1904. (Providencia Mines, Chihuahua, Mexico.)

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Peromyscus boylii rowleyi—Continued.

TYPE LOCALITY.—Noland Ranch, San Juan River, San Juan County, Utah.

RANGE.—Mountains of southern California, northern Lower California, southern Nevada, Utah, Colorado, Arizona, New Mexico, western Texas, and south in Mexico chiefly on the eastern slopes of the Sierra Madre to central Zacatecas and northwestern San Luis Potosi.

***Peromyscus boylii attwateri** (Allen).

1895. *Peromyscus attwateri* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 330. November 8, 1895.

1896. *Peromyscus bellus* BANGS, Proc. Biol. Soc. Washington, vol. 10, p. 137. December 28, 1896. (Stilwell, Adair County, Oklahoma.)

†1905. *Peromyscus boylei laceyi* BAILEY, North Amer. Fauna, No. 25, p. 99. October 24, 1905. (Turtle Creek, Kerr County, Texas.)

1906. *Peromyscus boylei attwateri* BAILEY, Proc. Biol. Soc. Washington, vol. 19, p. 57. May 1, 1906.

TYPE LOCALITY.—Turtle Creek, Kerr County, Texas.

RANGE.—South central and parts of western Texas; north to eastern Oklahoma, central Missouri, and southern Kansas. Chiefly confined to rocky cliffs in upper Sonoran zone.

***Peromyscus boylii spicilegus** (Allen).

1897. *Peromyscus spicilegus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 9, p. 50. March 15, 1897.

1909. *Peromyscus boylei spicilegus* OSGOOD, North Amer. Fauna, No. 28, p. 149. April 17, 1909.

TYPE LOCALITY.—Mineral San Sebastian, Mascota, State of Jalisco, Mexico.

RANGE.—Western slopes of the Sierra Madre of Mexico from southern Sonora south to southern Jalisco.

†***Peromyscus boylii simulus** (Osgood).

1904. *Peromyscus spicilegus simulus* OSGOOD, Proc. Biol. Soc. Washington, vol. 17, p. 64. March 21, 1904.

1909. *Peromyscus boylei simulus* OSGOOD, North Amer. Fauna, No. 28, p. 151. April 17, 1909.

TYPE LOCALITY.—San Blas, Tepic, Mexico.

RANGE.—Lowlands of the west coast of Mexico, in Sinaloa and Tepic.

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†*Peromyscus boylii madrensis (Merriam).

1898. *Peromyscus madrensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 16. January 27, 1898.

1909. *Peromyscus boylei madrensis* OSGOOD, North Amer. Fauna, No. 28, p. 152. April 17, 1909.

TYPE LOCALITY.—Maria Madre Island, Tres Marias Islands, State of Jalisco, Mexico.

RANGE.—Confined to the Tres Marias Islands.

†*Peromyscus boylii evides (Osgood).

1904. *Peromyscus spicilegus evides* OSGOOD, Proc. Biol. Soc. Washington, vol. 17, p. 64. March 21, 1904.

1909. *Peromyscus boylei evides* OSGOOD, North Amer. Fauna, No. 28, p. 152. April 17, 1909.

TYPE LOCALITY.—Juquila, Oaxaca, Mexico.

RANGE.—Western Mexico at lower altitudes than *P. b. spicilegus;* known from localities in the States of Guerrero, Oaxaca, and Michoacan.

†*Peromyscus boylii levipes (Merriam).

1898. *Peromyscus levipes* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 123. April 30, 1898.

1903. *Peromyscus beatæ* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 11, p. 485. May, 1903. (Mount Orizaba, Mexico.)

1909. *Peromyscus boylei levipes* OSGOOD, North Amer. Fauna, No. 28, p. 153. April 17, 1909.

TYPE LOCALITY.—Mount Malinche, Tlaxacla, Mexico. Altitude, 8,400 feet.

RANGE.—Eastern and southwestern Mexico and western Guatemala, chiefly in mountainous regions from central Nuevo Leon south through San Luis Potosi, Hidalgo, Vera Cruz, etc., to southern Oaxaca; reappearing in the highlands of Chiapas and western Guatemala.

*Peromyscus boylii aztecus (Saussure).

1860. *Hesperomys aztecus* SAUSSURE, Revue et magasin de zoologie, ser. 2, vol. 12, p. 105.

1909. *Peromyscus boylei aztecus* OSGOOD, North Amer. Fauna, No. 28, p. 156. April 17, 1909.

TYPE LOCALITY.—Southern Mexico.

RANGE.—Lower austral zone (and possibly part of humid tropical) of parts of the States of Vera Cruz and Puebla.

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†*Peromyscus oaxacensis Merriam.

1898. *Peromyscus oaxacensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 122. April 30, 1898.

TYPE LOCALITY.—Cerro San Felipe, State of Oaxaca, Mexico. Altitude, 10,000 feet.

RANGE.—High altitudes in southern Mexico, chiefly in the State of Oaxaca; reappearing in the mountains of central Chiapas.

†*Peromyscus hylocetes Merriam.

1898. *Peromyscus hylocetes* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 124. April 30, 1898.

TYPE LOCALITY.—Patzcuaro, State of Michoacan, Mexico. Altitude, 8,000 feet.

RANGE.—Mountainous parts of Michoacan and southern Jalisco; east to mountains near the Valley of Mexico.

†*Peromyscus pectoralis pectoralis (Osgood).

1904. *Peromyscus attwateri pectoralis* OSGOOD, Proc. Biol. Soc. Washington, vol. 17, p. 59. March 21, 1904.

1909. *Peromyscus pectoralis* OSGOOD, North Amer. Fauna, No. 28, p. 160. April 17, 1909.

TYPE LOCALITY.—Jalpan, Queretaro, Mexico.

RANGE.—Known from scattered localities in the Sonoran zone of eastern and central Mexico, from central Nuevo Leon south to Queretaro, and thence west through southern San Luis Potosi and (probably) Guanajuato to eastern Jalisco and southern Zacatecas.

†*Peromyscus pectoralis eremicoides (Osgood).

1904. *Peromyscus attwateri eremicoides* OSGOOD, Proc. Biol. Soc. Washington, vol. 17, p. 60. March 21, 1904.

1909. *Peromyscus pectoralis eremicoides* LYON and OSGOOD, Bull. U. S. Nat. Mus., No. 62, p. 128. January 28, 1909.

TYPE LOCALITY.—Mapimi, Durango, Mexico.

RANGE.—North central Mexico, chiefly in the States of Durango, Coahuila, and Chihuahua; north to southern Arizona.

†*Peromyscus pectoralis laceianus Bailey.

1906. *Peromyscus pectoralis laceianus* BAILEY, Proc. Biol. Soc. Washington, vol. 19, p. 57. May 1, 1906.

TYPE LOCALITY.—Lacey Ranch, near Kerrville, Kerr County, Texas.

RANGE.—West central Texas, from the vicinity of Austin to the Big Bend of the Rio Grande and immediately adjacent parts of Mexico.

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†*Peromyscus truei truei (Shufeldt).

1885. *Hesperomys truei* SHUFELDT, Proc. U. S. Nat. Mus., vol. 8, p. 407. September 14, 1885.

†1890. *Hesperomys megalotis* MERRIAM, North Amer. Fauna No. 3, p. 63. September 11, 1890. (Black Tank, Little Colorado Desert, Arizona.)

1894. *P[eromyscus] truei* THOMAS, Ann. and Mag. Nat. Hist., ser. 6, vol. 14, p. 365. November, 1894.

1904. *Peromyscus lasius* ELLIOT, Field Columb. Mus., publ. 90, zool. ser., vol. 3, p. 265. March 8, 1904. (Hannopee Canyon, Panamint Mountains, California.)

1904. *Peromyscus montipinoris* ELLIOT, Field Columb. Mus., publ. 90, zool. ser., vol. 3, p. 264, March 8, 1904. (Lachwood Valley, Mount Pinos, California.)

TYPE LOCALITY.—Fort Wingate, Valencia County, New Mexico.

RANGE.—Southwestern United States and northern Mexico from southern California (east of the Sierra and San Bernardino Ranges, across southern Nevada, southern Utah, Arizona, to west central New Mexico, and thence south in Mexico at least to north central Chihuahua.

*Peromyscus truei gilberti (Allen).

1893. *Sitomys gilberti* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 5, p. 188. August 18, 1893.

1896. *Peromyscus gilberti* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 8, p. 267. December 4, 1896.

1898. *Peromyscus dyselius* ELLIOT, Field Columb. Mus., publ. 27, zool. ser., vol. 1, p. 207. March, 1898. (Portola, San Mateo County, California.)

1909. *Peromyscus truei gilberti* OSGOOD, North Amer. Fauna, No. 28, p. 169. April 17, 1909.

TYPE LOCALITY.—Bear Valley, San Benito County, California.

RANGE.—Mountains and foothills of the interior of California and the coast south of San Francisco Bay; north to central Oregon. Chiefly upper Sonoran zone.

*Peromyscus truei martirensis (Allen).

1893. *Sitomys martirensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 5, p. 187. August 18, 1893.

1903. *Peromyscus hemionotis* ELLIOT, Field Columb. Mus., publ. 74, zool. ser., vol. 3, p. 157. April, 1903. (Rosarito Divide, San Pedro Martir Mountains, Lower California, Mexico.)

1909. *Peromyscus truei martirensis* OSGOOD, North Amer. Fauna, No. 28, p. 171. April 17, 1909.

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Peromyscus truei martirensis—Continued.

TYPE LOCALITY.—San Pedro Martir Mountains, at 7,000 feet altitude, Lower California, Mexico.

RANGE.—San Pedro Martir and adjacent ranges of mountains of northern Lower California, and northward to the San Jacinto and San Bernardino Mountains of southwestern California.

†***Peromyscus truei lagunæ** Osgood.

1909. *Peromyscus truei lagunæ* OSGOOD, North Amer. Fauna, No. 29, p. 172. April 17, 1909.

TYPE LOCALITY.—La Laguna, Laguna Mountains, Lower California, Mexico.

RANGE.—Mountains of the region of the extremity of the peninsula of Lower California, Mexico.

†***Peromyscus truei gratus** (Merriam).

1898. *Peromyscus gratus* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 123. April 30, 1898.

1903. *Peromyscus sagax* ELLIOT, Field Columb. Mus., publ. 71, zool. ser., vol. 3, p. 142. March, 1903. (Patzcuaro, Michoacan, Mexico.)

1903. *Peromyscus pavidus* ELLIOT, Field Columb. Mus., publ. 71, zool. ser., vol. 3, p. 142. March, 1903. (Patzcuaro, Michoacan, Mexico.)

†1904. *Peromyscus zelotes* OSGOOD, Proc. Biol. Soc. Washington, vol. 17, p. 67. March 21, 1904. (Querendaro, Michoacan, Mexico.)

TYPE LOCALITY.—Tlalpam, Valley of Mexico, Mexico.

RANGE.—South central Mexico in the States of Hidalgo, Mexico, Mexico, Michoacan, and Queretaro; possibly south to central Oaxaca.

†***Peromyscus truei gentilis** (Osgood).

1904. *Peromyscus gratus gentilis* OSGOOD, Proc. Biol. Soc. Washington, vol. 17, p. 61. March 21, 1904.

1909. *Peromyscus truei gentilis* OSGOOD, North Amer. Fauna, No. 28, p. 175. April 17, 1909.

TYPE LOCALITY.—Lagos, Jalisco, Mexico.

RANGE.—North Central Mexico, chiefly in the States of Durango, Zacatecas, and northern Jalisco; east to southern Coahuila.

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***Peromyscus nasutus** (Allen).

1891. *Vesperimus nasutus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 299. June 30, 1891.

1909. *Peromyscus nasutus* OSGOOD, North Amer. Fauna, No. 28, p. 176. April 17, 1909.

TYPE LOCALITY.—Estes Park, Larimer County, Colorado.

RANGE.—Mountains of Colorado, New Mexico, eastern Arizona, and western Texas, chiefly east of the Continental Divide.

†*Peromyscus polius Osgood.

1904. *Peromyscus polius* OSGOOD, Proc. Biol. Soc. Washington, vol. 17, p. 61. March 21, 1904.

TYPE LOCALITY.—Colonia Garcia, Chihuahua, Mexico.

RANGE.—Known only from the type locality.

***Peromyscus difficilis difficilis** (Allen).

1891. *Vesperimus difficilis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 298. June 30, 1891.

1897. [*Peromyscus*] *difficilis* TROUESSART, Catal. Mamm. viv. foss., p. 518.

TYPE LOCALITY.—Sierra de Valparaiso. State of Zacatecas, Mexico.

RANGE.—Sierra Madre from southwestern Chihuahua south through Durango and Zacatecas, then east and southeast to certain mountainous parts of Guanajuato and northern Hidalgo, and thence north through parts of San Luis Potosi to mountains of southern Coahuila. Chiefly in transition zone.

†*Peromyscus difficilis amplus (Osgood).

1904. *Peromyscus amplus* OSGOOD, Proc. Biol. Soc. Washington, vol. 17, p. 62. March 21, 1904.

1909. *Peromyscus difficilis amplus* OSGOOD, North Amer. Fauna, No. 28, p. 181. April 17, 1909.

TYPE LOCALITY.—Coixtlahuaca, Oaxaca, Mexico.

RANGE.—Mountains of north central Oaxaca, Puebla, southeastern Vera Cruz, and southern Hidalgo.

†*Peromyscus difficilis felipensis (Merriam).

1898. *Peromyscus felipensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 122. April 30, 1898.

1909. *Peromyscus difficilis felipensis* OSGOOD, North Amer. Fauna, no. 28, p. 182. April 17, 1909.

TYPE LOCALITY.—Cerro San Felipe, State of Oaxaca, Mexico. Altitude, 10,200 feet.

RANGE.—High elevations (8,000 feet to 11,000 feet) on the mountains surrounding the Valley of Mexico; reappearing at similar elevations in the mountains northeast of the city of Oaxaca.

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†*Peromyscus bullatus Osgood.

1904. *Peromyscus bullatus* OSGOOD, Proc. Biol. Soc. Washington, vol. 17, p. 63. March 21, 1904.

TYPE LOCALITY.—Perote, Vera Cruz, Mexico.

RANGE.—Known only from the type locality.

†*Peromyscus melanophrys melanophrys (Coues).

1874. *Hesperomys* (*Vesperimus*) *melanophrys* COUES, Proc. Acad. Nat. Sci. Philadelphia, p. 181. December 15, 1874.

1885. *Hesperomys melanophrys* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 598. 1885.

1894. *Peromyscus leucurus* THOMAS, Ann. and Mag. Nat. Hist., ser. 6, vol. 14, p. 364. November, 1894. (Tehuantepec, Oaxaca, Mexico.)

1897. *P*[*eromyscus*] *melanophrys* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 9, p. 51. March 15, 1897.

1903. *Peromyscus leucurus gadovii* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 11, p. 484. May, 1903. (San Carlos = Yautepec, Oaxaca, Mexico.)

TYPE LOCALITY.—Santa Efigenia, Tehuantepec, Mexico.

RANGE.—Arid tropical and lower Sonoran region of south central Mexico from sea level to arid mountains of 5,000 feet altitude. States of Chiapas, Guerrero, Morelos, Oaxaca, and Puebla.

†*Peromyscus melanophrys zamoræ Osgood.

1904. *Peromyscus melanophrys zamoræ* OSGOOD, Proc. Biol. Soc. Washington, vol. 17, p. 65. March 21, 1904.

TYPE LOCALITY.—Zamora, Michoacan, Mexico.

RANGE.—South central Mexico between the ranges of *melanophrys* and *consobrinus*; known from a few localities in the States of Hidalgo and Michoacan.

†*Peromyscus melanophrys consobrinus Osgood.

1904. *Peromyscus melanophrys consobrinus* OSGOOD, Proc. Biol. Soc. Washington, vol. 17, p. 66. March 21, 1904.

TYPE LOCALITY.—Berriozabal, Zacatecas, Mexico.

RANGE.—Southern part of the Mexican table-land; Sonoran zone in States of San Luis Potosi, Jalisco, Zacatecas, etc.

†*Peromyscus xenurus Osgood.

1904. *Peromyscus xenurus* OSGOOD, Proc. Biol. Soc. Washington, vol. 17, p. 67. March 21, 1904.

TYPE LOCALITY.—Durango, Durango, Mexico.

RANGE.—Known only from the type locality.

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†*Peromyscus mekisturus Merriam.

1898. *Peromyscus mekisturus* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 124. April 30, 1898.

TYPE LOCALITY.—Chalchicomula, State of Puebla, Mexico. Altitude, 8,400 feet.

RANGE.—Known only from the type locality.

†*Peromyscus lepturus Merriam.

1898. *Peromyscus lepturus* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 118. April 30, 1898.

TYPE LOCALITY.—Mount Zempoaltepec, State of Oaxaca, Mexico. Altitude, 8,200 feet.

RANGE.—Known only from the type locality.

†*Peromyscus lophurus Osgood.

1904. *Peromyscus lophurus* OSGOOD, Proc. Biol. Soc. Washington, vol. 17, p. 72. March 21, 1904.

TYPE LOCALITY.—Todos Santos, Guatemala. Altitude 8,500 feet.

RANGE.—Highlands of the State of Chiapas, Mexico, and of western Guatemala.

†*Peromyscus simulatus Osgood.

1904. *Peromyscus simulatus* OSGOOD, Proc. Biol. Soc. Washington, vol. 17, p. 72. March 21, 1904.

TYPE LOCALITY.—Near Jico, Vera Cruz, Mexico. Altitude 6,000 feet.

RANGE.—Known only from the type locality.

†*Peromyscus guatemalensis Merriam.

1898. *Peromyscus guatemalensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 118. April 30, 1898.

TYPE LOCALITY.—Todos Santos, Guatemala. Altitude, 10,000 feet.

RANGE.—High altitudes in western Guatemala and southern Chiapas.

*Peromyscus nudipes (Allen).

1891. *Hesperomys* (*Vesperimus?*) *nudipes* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 213. April 17, 1891.

1894. *Peromyscus nudipes* THOMAS, Ann. and Mag. Nat. Hist., ser. 6, vol. 14, p. 365. November, 1894.

1902. *Peromyscus cacabatus* BANGS, Bull. Mus. Comp. Zool., vol. 39, p. 29. April, 1892. (Boquete, Chiriqui, Panama.)

TYPE LOCALITY.—La Carpintera, Costa Rica.

RANGE.—Mountains of central Costa Rica and thence south to Chiriqui.

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***Peromyscus furvus** Allen and Chapman.

1897. *Peromyscus furvus* ALLEN and CHAPMAN, Bull. Amer. Mus. Nat. Hist., vol. 9, p. 201. June 16, 1897.

TYPE LOCALITY.—Jalapa, State of Vera Cruz, Mexico.

RANGE.—Known from a few localities in humid tropical parts of northern Vera Cruz and Puebla.

†*Peromyscus altilaneus Osgood.

1904. *Peromyscus altilaneus* OSGOOD, Proc. Biol. Soc. Washington, vol. 17, p. 74. March 21, 1904.

TYPE LOCALITY.—Todos Santos, Guatemala. Altitude, 10,000 feet.

RANGE.—Known only from type locality.

***Peromyscus mexicanus mexicanus** (Saussure).

1860. *Hesperomys mexicanus* SAUSSURE, Revue et magasin de zoologie, ser. 2, vol. 12, p. 103.

1885. *Hesperomys mexicanus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 597. 1885.

1894. *P[eromyscus] mexicanus* THOMAS, Ann. and Mag. Nat. Hist., ser. 6, vol. 14, p. 364. November, 1894.

†1898. *Peromyscus tehuantepecus* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 122. April 30, 1898. (Tehuantepec, Oaxaca, Mexico.)

TYPE LOCALITY.—Mexico; assumed to be the vicinity of Mirador, Vera Cruz.

RANGE.—Tropical parts of eastern and southern Mexico from northern Puebla and southward to southern Vera Cruz and thence south and east to southern Oaxaca and northern Chiapas.

†*Peromyscus mexicanus totontepecus Merriam.

1898. *Peromyscus mexicanus totontepecus* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 120. April 30, 1898.

†1898. *Peromyscus mexicanus orizabæ* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 120. April 30, 1898. (Orizaba, Vera Cruz, Mexico.)

TYPE LOCALITY.—Totontepec, Oaxaca, Mexico. Altitude, 6,500 feet.

RANGE.—Western Vera Cruz and east central Oaxaca west of the range of *P. mexicanus mexicanus*.

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†*Peromyscus mexicanus saxatilis Merriam.

1898. *Peromyscus mexicanus saxatilis* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 121. April 30, 1898.

1908. *Peromyscus nicaraguæ* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 24, p. 649. October 13, 1908. (Matagalpa, Nicaragua.)

TYPE LOCALITY.—Jacaltenango, Huehuetenango, Guatemala. Altitude, 5,400 feet.

RANGE.—Northwestern Guatemala and southeastern Chiapas, south to Nicaragua.

†*Peromyscus mexicanus teapensis Osgood.

1904. *Peromyscus mexicanus teapensis* OSGOOD, Proc. Biol. Soc. Washington, vol. 17, p. 69. March 21, 1904.

TYPE LOCALITY.—Teapa, Tabasco, Mexico. Altitude, 800 feet.

RANGE.—Humid tropical parts of northern Tabasco. Mexico.

*Peromyscus mexicanus gymnotis (Thomas).

1894. *Peromyscus gymnotis* THOMAS, Ann. and Mag. Nat. Hist., ser. 6, vol. 14, p. 365. November, 1894.

1909. *Peromyscus mexicanus gymnotis* OSGOOD, North Amer. Fauna, No. 28, p. 205. April 17, 1909.

TYPE LOCALITY.—Guatemala.

RANGE.—Certain parts of Guatemala and (probably) northward at slight elevations to southwestern Chiapas.

†*Peromyscus allophylus Osgood.

1904. *Peromyscus allophylus* OSGOOD, Proc. Biol. Soc. Washington, vol. 17, p. 71. March 21, 1904.

TYPE LOCALITY.—Huehuetan, Chiapas, Mexico. Altitude, 200 feet.

RANGE.—Known only from the type locality.

*Peromyscus banderanus banderanus Allen.

1897. *Peromyscus banderanus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 9, p. 51. March 15, 1897.

TYPE LOCALITY.—Terro Tepic, Valle de Banderas, State of Jalisco, Mexico.

RANGE.—Pacific coast of Mexico from Bahia Banderas, Tepic, to vicinity of Acapulco, Guerrero.

†*Peromyscus banderanus vicinior Osgood.

1904. *Peromyscus banderanus vicinior* OSGOOD, Proc. Biol. Soc. Washington, vol. 17, p. 68. March 21, 1904.

TYPE LOCALITY.—La Salada, Michoacan, Mexico.

RANGE.—Western Mexico in the States of Michoacan and Guerrero, occupying the slightly more elevated region immediately east of the range of typical *banderanus*.

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†*Peromyscus banderanus angelensis Osgood.

1904. *Peromyscus banderanus angelensis* OSGOOD, Proc. Biol. Soc. Washington, vol. 17, p. 69. March 21, 1904.

TYPE LOCALITY.—Puerto Angel, Oaxaca, Mexico.

RANGE.—Coast of southern Oaxaca; known from two localities only.

*Peromyscus yucatanicus yucatanicus Allen and Chapman.

1897. *Peromyscus yucatanicus* ALLEN and CHAPMAN, Bull. Amer. Mus. Nat. Hist., vol. 9, p. 8. February 23, 1897.

TYPE LOCALITY.—Chichenitza, Yucatan.

RANGE.—Northern parts of the peninsula of Yucatan; chiefly arid tropical zone.

†*Peromyscus yucatanicus badius Osgood.

1904. *Peromyscus yucatanicus badius* OSGOOD, Proc. Biol. Soc. Washington, vol. 17, p. 70. March 21, 1904.

TYPE LOCALITY.—Apazote, Campeche, Mexico.

RANGE.—Known only from the type locality.

†*Peromyscus megalops megalops Merriam.

1898. *Peromyscus megalops* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 119. April 30, 1898.

TYPE LOCALITY.—Mountains near Ozolotepec, State of Oaxaca, Mexico.

RANGE.—Known only from the type locality.

†*Peromyscus megalops auritus (Merriam).

1898. *Peromyscus auritus* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 119. April 30, 1898.

†1898. *Peromyscus comptus* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 120. April 30, 1898. (Mountains near Chilpancingo, Guerrero, Mexico.)

1909. *Peromyscus megalops auritus* OSGOOD, North Amer. Fauna, No. 28, p. 214. April 17, 1909.

TYPE LOCALITY.—Mountains 15 miles west of Oaxaca, Oaxaca, Mexico. Altitude, 9,300 feet.

RANGE.—High altitudes in mountains of western Oaxaca and southeastern Guerrero, Mexico.

†*Peromyscus megalops melanurus Osgood.

1909. *Peromyscus megalops melanurus* OSGOOD, North Amer. Fauna, No. 28, p. 215. April 17, 1909.

TYPE LOCALITY.—Pluma, Oaxaca, Mexico. Altitude, 4,600 feet.

RANGE.—Known only from type locality.

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†*Peromyscus melanocarpus Osgood.

1904. *Peromyscus melanocarpus* OSGOOD, Proc. Biol. Soc. Washington, vol. 17, p. 73. March 21, 1904.

TYPE LOCALITY.—Mount Zempoaltepec, Oaxaca, Mexico. Altitude, 8,000 feet.

RANGE.—Known only from the upper slopes of Mount Zempoaltepec.

†*Peromyscus zarhynchus Merriam.

1898. *Peromyscus zarhynchus* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 117. April 30, 1898.

†1898. *Peromyscus zarhynchus cristobalensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 117. April 30, 1898. (San Cristobal, Chiapas, Mexico.)

TYPE LOCALITY.—Tumbala, Chiapas, Mexico. Altitude, 5,500 feet.

RANGE.—Highlands of Chiapas and Guatemala.

Subgenus MEGADONTOMYS Merriam.[1]

1898. *Megadontomys* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 115. April 30, 1898. Type, *Peromyscus thomasi* MERRIAM.

†*Peromyscus thomasi Merriam.

1898. *Peromyscus* (*Megadontomys*) *thomasi* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 116. April 30, 1898.

TYPE LOCALITY.—Mountains near Chilpancingo, State of Guerrero, Mexico. Altitude, 9,700 feet.

RANGE.—High altitudes in mountains of central Guerrero, Mexico.

†*Peromyscus nelsoni Merriam.

1898. *Peromyscus* (*Megadontomys*) *nelsoni* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 116. April 30, 1898.

TYPE LOCALITY.—Jico, State of Vera Cruz, Mexico. Altitude, 6,000 feet.

RANGE.—Known only from the type locality.

*Peromyscus flavidus (Bangs).

1902. *Megadontomys flavidus* BANGS, Bull. Mus. Comp. Zool., vol. 39, p. 27. April, 1902.

1909. *Peromyscus flavidus* OSGOOD, North Amer. Fauna, No. 28, p. 221. April 17, 1909.

TYPE LOCALITY.—Boquete, south slope of Volcan de Chiriqui, Panama.

RANGE.—Known only from the type locality.

[1] Revised by Osgood, North Amer. Fauna, No. 28, pp. 218-222, April 17, 1909.

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Subgenus OCHROTOMYS Osgood.[1]

1909. *Ochrotomys* OSGOOD, North Amer. Fauna, No. 28, p. 222. April 17, 1909. Type, *Arvicola nuttalli* HARLAN.

***Peromyscus nuttalli nuttalli** (Harlan).

1832. *Arvicola nuttalli* HARLAN, Monthly Amer. Journ. Geol. and Nat. Sci., Philadelphia, p. 446. April, 1832.

1885. *Hesperomys aureolus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 598. 1885. (Part.)

1898. *Peromyscus nuttalli* BANGS, Proc. Boston Soc. Nat. Hist., vol. 28, p. 197. March, 1898.

TYPE LOCALITY.—Norfolk, Norfolk County, Virginia.

RANGE.—Southeastern Virginia and northern North Carolina; west to central Kentucky.

***Peromyscus nuttalli aureolus** (Audubon and Bachman).

1841. *Mus* (*Calomys*) *aureolus* AUDUBON and BACHMAN, Proc. Acad. Nat. Sci. Philadelphia, vol. 1, p. 98.

1909. *Peromyscus nuttalli aureolus* OSGOOD, North Amer. Fauna, No. 28, p. 225. April 17, 1909.

TYPE LOCALITY.—"In the oak forests of South Carolina."

RANGE.—Southeastern United States from North Carolina to northern Florida; west to eastern Texas and Oklahoma. Lower austral zone.

Subgenus PODOMYS Osgood.[2]

1909. *Podomys* OSGOOD, North Amer. Fauna, No. 29, p. 226. April 17, 1909. Type, *Hesperomys floridanus* CHAPMAN.

***Peromyscus floridanus** (Chapman).

1889. *Hesperomys floridanus* CHAPMAN, Bull. Amer. Mus. Nat. Hist., vol. 2, p. 117. June 7, 1889.

†1890. *Hesperomys macropus* MERRIAM, North Amer. Fauna, No. 4, p. 53. October 8, 1890. (Lake Worth, Palm Beach County, Florida.)

1896. *Peromyscus floridanus* BANGS, Proc. Biol. Soc. Washington, vol. 10, p. 122. November 5, 1896.

TYPE LOCALITY.—Gainesville, Alachua County, Florida.

RANGE.—The central part of peninsular Florida from coast to coast.

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[1] Revised by Osgood, North Amer. Fauna, No. 28, pp. 222-226, April 17, 1909.

[2] Revised by Osgood, North Amer. Fauna, No. 28, pp. 226-228, April 17, 1909.

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Genus ORYZOMYS Baird.[1]

1857. *Oryzomys* BAIRD, Mamm. N. Amer., p. 458. Type, *Mus palustris* HARLAN.

***Oryzomys palustris palustris** (Harlan).

1837. *Mus palustris* HARLAN, Silliman's Amer. Journ. Sci., vol. 31, p. 386.

1857. *Oryzomys palustris* BAIRD, Mamm. N. Amer., p. 459.

1885. *Hesperomys palustris* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 597. 1885. (Part.)

1894. *Oryzomys palustris* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 215. April 17, 1891.

1894. *Oryzomys palustris texensis* ALLEN,[2] Bull. Amer. Mus. Nat. Hist., vol. 6, p. 177. May 31, 1894. (Rockport, Aransas County, Texas.)

TYPE LOCALITY.—Fast Land, near Salem, Salem County, New Jersey.

***Oryzomys palustris oryzivorus** (Audubon and Bachman).

1853. *Arvicola oryzivora* AUDUBON and BACHMAN, Quadr. N. Amer., vol. 3, p. 214.

1902. *Oryzomys palustris oryzivorus* RHOADS, Amer. Nat., vol. 36, p. 662. August, 1902.

TYPE LOCALITY.—St. John's Parish, South Carolina.

***Oryzomys natator natator** (Chapman).

1893. *Oryzomys palustris natator* CHAPMAN, Bull. Amer. Mus. Nat. Hist., vol. 5, p. 44. March 17, 1893.

1901. *Oryzomys natator* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 277. July 26, 1901.

TYPE LOCALITY.—Gainesville, Alachua County, Florida.

Regarded by Rhoads (Amer. Nat., vol. 36, p. 662, August, 1902) as identical with *O. palustris oryzivorus*.

***Oryzomys natator coloratus** (Bangs).

1898. *Oryzomys palustris coloratus* BANGS, Proc. Boston Soc. Nat. Hist., vol. 28, p. 189. March, 1898.

†1901. *Oryzomys natator floridanus* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 277. July 6, 1901. (Everglade, Monroe County, Florida.)

TYPE LOCALITY.—Cape Sable, Monroe County, Florida.

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[1] Forms occurring in the United States and Mexico (*palustris* to *fulvescens*) revised by Merriam (Proc. Washington Acad. Sci., vol. 3, p. 273-295, July 26, 1901). Ranges not given.

[2] Regarded as probably a distinct local form by Mearns (Mamm. Mex. Boundary, p. 456, April 13, 1907).

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***Oryzomys aquaticus** Allen.

1891. *Oryzomys aquaticus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 289. June 30, 1891.

TYPE LOCALITY.—Brownsville, Cameron County, Texas.

***Oryzomys peninsulæ** Thomas.

1897. *Oryzomys peninsulæ* THOMAS, Ann. and Mag. Nat. Hist., ser. 6, vol. 20, p. 548. December, 1897.

TYPE LOCALITY.—Santa Anita, Lower California, Mexico.

†*Oryzomys nelsoni Merriam.

1898. *Oryzomys nelsoni* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 15. January 27, 1898.

TYPE LOCALITY.—Maria Madre Island, Tres Marias Islands, State of Jalisco, Mexico.

†*Oryzomys albiventer Merriam.

1901. *Oryzomys albiventer* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 279, July 26, 1901.

TYPE LOCALITY.—Ameca, Jalisco, Mexico.

†*Oryzomys cozumelæ Merriam.

1901. *Oryzomys cozumelæ* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 280, July 26, 1901.

TYPE LOCALITY.—Cozumel Island, Yucatan, Mexico.

***Oryzomys fulgens** Thomas.

1893. *Oryzomys fulgens* THOMAS, Ann. and Mag. Nat. Hist., ser. 6, vol. 11, p. 403. May, 1893.

TYPE LOCALITY.—"Mexico." Probably in or near the Valley of Mexico.

***Oryzomys molestus** Elliot.

1903. *Oryzomys molestus* ELLIOT, Field Columb. Mus., publ. 71, zool. ser., vol. 3, p. 145. February, 1903.

TYPE LOCALITY.—Ocotlan, Jalisco, Mexico.

†*Oryzomys crinitus crinitus Merriam.

1901. *Oryzomys crinitus* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 281, July 26, 1901.

TYPE LOCALITY.—Tlalpam, Federal District, Mexico.

†*Oryzomys crinitus aztecus Merriam.

1901. *Oryzomys crinitus aztecus* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 282. July 26, 1901.

TYPE LOCALITY.—Yautepec, Morelos, Mexico.

***Oryzomys mexicanus mexicanus** Allen.

1897. *Oryzomys mexicanus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 9, p. 52. March 15, 1897.

TYPE LOCALITY.—Hacienda San Marcos, Tonila, State of Jalisco, Mexico.

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†*Oryzomys mexicanus peragrus Merriam.

1901. *Oryzomys mexicanus peragrus* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 283. July 26, 1901.

TYPE LOCALITY.—Rio Verde, San Luis Potosi, Mexico.

†*Oryzomys richmondi Merriam.

1901. *Oryzomys richmondi* MERRAIM, Proc. Washington Acad. Sci., vol. 3, p. 284. July 26, 1901.

TYPE LOCALITY.—Escondido River (50 miles above Bluefields), Nicaragua.

*Oryzomys jalapæ jalapæ Allen and Chapman.

1897. *Oryzomys jalapæ* ALLEN and CHAPMAN, Bull. Amer. Mus. Nat. Hist., vol. 9, p. 206. June 16, 1897.

TYPE LOCALITY.—Jalapa, Vera Cruz, Mexico.

†*Oryzomys jalapæ rufinus Merriam.

1901. *Oryzomys jalapæ rufinus* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 285. July 26, 1901.

TYPE LOCALITY.—Catemaco, Vera Cruz, Mexico.

Oryzomys jalapæ apatelius Elliot.

1904. *Oryzomys jalapæ apatelius* ELLIOT, Field Columb. Mus., publ. 90, zool. ser., vol. 3, p. 266. March 8, 1904.

TYPE LOCALITY.—San Carlos, Vera Cruz, Mexico.

†*Oryzomys zygomaticus Merriam.

1901. *Oryzomys zygomaticus* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 285. July 25, 1901.

TYPE LOCALITY.—Nenton, Guatemala.

†*Oryzomys teapensis Merriam.

1901. *Oryzomys teapensis* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 286. July 26, 1901.

TYPE LOCALITY.—Teapa, Tabasco, Mexico.

*Oryzomys bulleri Allen.

1897. *Oryzomys bulleri* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 9, p. 53. March 15, 1897.

TYPE LOCALITY.—Valle de Banderas, Terro Tepic, State of Jalisco, Mexico.

†*Oryzomys rufus Merriam.

1901. *Oryzomys rufus* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 287. July 26, 1901.

TYPE LOCALITY.—Santiago, Tepic, Mexico.

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***Oryzomys couesi** (Alston).

1876. *Hesperomys couesi* ALSTON, Proc. Zool. Soc. London, p. 756.

1885. *Hesperomys couesi* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 597. 1885. (Part.)

1893. *Oryzomys couesi* THOMAS, Ann. and Mag. Nat. Hist., ser. 6, vol. 11, p. 403. May, 1893.

TYPE LOCALITY.—Coban, Guatemala. (See Thomas, Ann. and Mag. Nat. Hist., ser. 6, vol. 11, p. 403, May, 1893.)

†*Oryzomys goldmani Merriam.

1901. *Oryzomys goldmani* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 289. July 26, 1901.

TYPE LOCALITY.—Coatzacoalcos, Vera Cruz, Mexico.

***Oryzomys chapmani chapmani** Thomas.

1898. *Oryzomys chapmani* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 1, p. 179. February, 1898.

TYPE LOCALITY.—Jalapa, Vera Cruz, Mexico.

†*Oryzomys chapmani caudatus Merriam.

1901. *Oryzomys chapmani caudatus* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 289. July 26, 1901.

TYPE LOCALITY.—Comaltepec, Oaxaca, Mexico.

†*Oryzomys chapmani saturatior Merriam.

1901. *Oryzomys chapmani saturatior* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 290. July 26, 1901.

TYPE LOCALITY.—Tumbala, Chiapas, Mexico.

†*Oryzomys chapmani dilutior Merriam.

1901. *Oryzomys chapmani dilutior* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 290. July 26, 1901.

TYPE LOCALITY.—Huauchinango, Puebla, Mexico.

†*Oryzomys palatinus Merriam.

1901. *Oryzomys palatinus* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 290. July 26, 1901.

TYPE LOCALITY.—Teapa, Tabasco, Mexico.

†*Oryzomys hylocetes Merriam.

1901. *Oryzomys hylocetes* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 291. July 26, 1901.

TYPE LOCALITY.—Chicharras, Chiapas, Mexico.

†*Oryzomys rhabdops Merriam.

1901. *Oryzomys rhabdops* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 291. July 26, 1901.

TYPE LOCALITY.—Calel, Guatemala. Altitude, 10,000 feet.

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†*Oryzomys angusticeps Merriam.

1901. *Oryzomys angusticeps* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 292. July 26, 1901.

TYPE LOCALITY.—Volcan Santa Maria, Guatemala. Altitude, 9,000 feet.

*Oryzomys melanotis Thomas.

1893. *Oryzomys melanotis* THOMAS, Ann. and Mag. Nat. Hist., ser. 6, vol. 11, p. 404. May, 1893.

TYPE LOCALITY.—Mineral San Sebastian, State of Jalisco, Mexico.

†*Oryzomys rostratus rostratus Merriam.

1901. *Oryzomys rostratus* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 293. July 26, 1901.

TYPE LOCALITY.—Metlaltoyuca, Puebla, Mexico.

†*Oryzomys rostratus megadon Merriam.

1901. *Oryzomys rostratus megadon* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 294. July 26, 1901.

TYPE LOCALITY.—Teapa, Tabasco, Mexico.

†*Oryzomys yucatanensis Merriam.

1901. *Oryzomys yucatanensis* MERRIAM, Proc. Washington Acad. Sci., vol. 3. July 26, 1901.

TYPE LOCALITY.—Chichenitza, Yucatan, Mexico.

*Oryzomys fulvescens (Saussure).

1860. *Hesperomys fulvescens* SAUSSURE, Revue et magasin de zoologie, ser. 2, vol. 12, p. 102. March, 1860.

1897. *Oryzomys fulvescens* ALLEN and CHAPMAN, Bull. Amer. Mus. Nat. Hist., vol. 9, p. 204. June 16, 1897.

TYPE LOCALITY.—State of Vera Cruz, Mexico.

Oryzomys alfaroi alfaroi (Allen).

1891. *Hesperomys* (*Oryzomys*) *alfaroi* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 214. April 17, 1891.

1894. *Oryzomys alfaroi* ALLEN, Abstract Proc. Linn. Soc. New York, 1893–1894, p. 36. July 20, 1894.

TYPE LOCALITY.—San Carlos, Costa Rica.

Oryzomys alfaroi incertus Allen.

1908. *Oryzomys alfaroi incertus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 24, p. 655. October 13, 1908.

TYPE LOCALITY.—Rio Grande, Nicaragua.

*Oryzomys antillarum Thomas.

1898. *Oryzomys antillarum* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 1, p. 177. February, 1898.

TYPE LOCALITY.—Jamaica.

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†*Oryzomys bombycinus Goldman.

1912. *Oryzomys bombycinus* GOLDMAN, Smiths. Misc. Coll., vol. 56, No. 36, p. 6. February 19, 1912.

TYPE LOCALITY.—Cerro Azul (altitude, 2,500 feet), near headwaters of Chagres River, Panama.

Oryzomys carrikeri Allen.

1908. *Oryzomys carrikeri* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 24, p. 656. October 13, 1908.

TYPE LOCALITY.—Rio Sicsola, Talamanca, Costa Rica.

Oryzomys costaricensis Allen.

1893. *Oryzomys costaricensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 5, p. 239. September 22, 1893.

TYPE LOCALITY.—El General, Costa Rica. Altitude, 2,150 feet.

Oryzomys devius Bangs.

1902. *Oryzomys devius* BANGS, Bull. Mus. Comp. Zool., vol. 39, p. 34. April, 1902.

TYPE LOCALITY.—Boquete, Chiriqui, Panama. Altitude, 5,000 feet.

†*Oryzomys frontalis Goldman.

1912. *Oryzomys frontalis* GOLDMAN, Smiths. Misc. Coll., vol. 56, No. 36, p. 6. February 19, 1912.

TYPE LOCALITY.—Corozal, Canal Zone, Panama.

†*Oryzomys gatunensis Goldman.

1912. *Oryzomys gatunensis* GOLDMAN, Smiths. Misc. Coll., vol. 56, No. 36, p. 7. February 19, 1912.

TYPE LOCALITY.—Gatun, Canal Zone, Panama.

†*Oryzomys idoneus Goldman.

1912. *Oryzomys idoneus* GOLDMAN, Smiths. Misc. Coll., vol. 56, No. 36, p. 5. February 19, 1912.

TYPE LOCALITY.—Cerro Azul (altitude, 2,500 feet), near headwaters of Chagres River, Panama.

Oryzomys nicaraguæ Allen.

1910. *Oryzomys (Oligoryzomys) nicaraguæ* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 28, p. 100. April 30, 1910.

TYPE LOCALITY.—Vijagua, Nicaragua.

Oryzomys ochraceus Allen.

1908. *Oryzomys ochraceus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 24, p. 655. October 13, 1908.

TYPE LOCALITY.—Rio Grande, Nicaragua.

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Oryzomys panamensis Thomas.

1901. *Oryzomys panamensis* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 8, p. 252. September, 1901.

TYPE LOCALITY.—City of Panama, Panama.

Oryzomys richardsoni Allen.

1910. *Oryzomys richardsoni* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 28, p. 99. April 30, 1910.

TYPE LOCALITY.—Pena Blanca, Nicaragua.

†***Oryzomys talamancæ** Allen.

1891. *Oryzomys talamancæ* ALLEN, Proc. U. S. Nat. Mus., vol. 14, p. 193. July 24, 1891.

TYPE LOCALITY.—Talamanca, Costa Rica.

Oryzomys tectus Thomas.

1901. *Oryzomys tectus* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 8, p. 251. September, 1901.

TYPE LOCALITY.—Bogava, Chiriqui, Panama. Altitude, about 800 feet.

Oryzomys vegetus Bangs.

1902. *Oryzomys* (*Oligoryzomys*) *vegetus* BANGS, Bull. Mus. Comp. Zool., vol. 39, p. 35. April, 1902.

TYPE LOCALITY.—Boquete, Chiriqui, Panama. Altitude, 4,000 feet.

Regarded by Allen (Bull. Amer. Mus. Nat. Hist., vol. 20, p. 69, February 29, 1904) as identical with *O. costaricensis*.

Oryzomys victus Thomas.

1898. *Oryzomys victus* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 1, p. 178. February, 1898.

TYPE LOCALITY.—St. Vincent, Lesser Antilles.

Genus ZYGODONTOMYS Allen.

1897. *Zygodontomys* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 9, p. 38. March 11, 1897. Type, *Oryzomys cherriei* ALLEN.

***Zygodontomys cherriei cherriei** (Allen).

1895. *Oryzomys cherriei* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 329. November 8, 1895.

1897. *Zygodontomys cherriei* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 9, p. 38. March 11, 1897.

TYPE LOCALITY.—Boruca, Costa Rica.

†***Zygodontomys cherriei ventriosus** Goldman.

1912. *Zygodontomys cherriei ventriosus* GOLDMAN, Smiths. Misc. Coll., vol. 56, No. 36, p. 8. February 19, 1912.

TYPE LOCALITY.—Tabernilla, Canal Zone, Panama.

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***Zygodontomys chrysomelas** (Allen).

1897. *Oryzomys chrysomelas* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 9, p. 37. March 11, 1897.

1902. *Zygodontomys chrysomelas* BANGS, Bull. Mus. Comp. Zool., vol. 39, p. 37. April, 1902.

TYPE LOCALITY.—Suerre, Costa Rica.

***Zygodontomys seorsus** Bangs.

1901. *Zygodontomys seorsus* BANGS, Amer. Nat., vol. 35, p. 642. August, 1901.

TYPE LOCALITY.—San Miguel Island, Panama.

Genus SIGMODONTOMYS Allen.

1897. *Sigmodontomys* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 9, p. 38. March 11, 1897. Type, *Sigmodontomys alfari* ALLEN.

Sigmodontomys alfari Allen.

1897. *Sigmodontomys alfari* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 9, p. 39. March 11, 1897.

TYPE LOCALITY.—Jimenez, Costa Rica. Altitude, 700 feet.

Genus MEGALOMYS Trouessart.[1]

1881. *Megalomys* TROUESSART, Le Naturaliste, vol. 1, p. 357. February 1, 1881. Type, *Mus pilorides* PALLAS.

1902. *Megalomys* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 16, p. 21. February 1, 1902.

According to Major (Ann. and Mag. Nat. Hist., ser. 7, vol. 7, p. 205, February, 1901), this genus is not distinguishable from *Oryzomys*.

Megalomys desmarestii (Fischer).

1829. *M[us] desmarestii* FISCHER, Synopsis Mammalium, p. 316.

1885. *Hesperomys pilorides* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 598. 1885.

1902. *Megalomys desmaresti* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 16, p. 21. February 1, 1902.

TYPE LOCALITY.—Island of Martinique, West Indies.

According to Major (Ann. and Mag. Nat. Hist., ser. 7, vol. 7, p. 205, February, 1901), the proper name for this species is *Oryzomys piloris* (ZIMMERMANN.)

Megalomys luciæ (Major).

1901. *Oryzomys luciæ* MAJOR, Ann. and Mag. Nat. Hist., ser. 7, vol. 7, p. 206. February, 1901.

TYPE LOCALITY.—Island of Santa Lucia, West Indies.

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[1] On account of the existence of the earlier name *Megamys* (LAURILLARD, 1848) applied to another genus, *Megalomys* has been replaced by *Moschomys* TROUESSART (Ann. and Mag. Nat. Hist., ser. 7, vol. 11, p. 388, April, 1903, not of Billberg, 1828) and *Moschophoromys* ELLIOT (Field Columb. Mus., publ. 90, zool. ser., vol. 3, p. 270, March 8, 1904). This is not in accordance with the provisions of the International Code. (Art. 36, with accompanying recommendation.)

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Genus TYLOMYS Peters.

1866. *Tylomys* PETERS, Monatsber. k. preuss. Akad. Wissensch. Berlin, p. 404. Type, *Hesperomys* (*Tylomys*) *nudicaudus* PETERS.

†*Tylomys bullaris Merriam.

1901. *Tylomys bullaris* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 561. November 29, 1901.

TYPE LOCALITY.—Tuxtla, State of Chiapas, Mexico.

*Tylomys nudicaudus (Peters).

1866. *Hesperomys* (*Tylomys*) *nudicaudus* PETERS, Monatsber. k. preuss. Akad. Wissensch. Berlin, p. 404, pl. 1, figs. 1–4.

1885. *Hesperomys nudicaudus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 598. 1885.

1897. [*Tylomys*] *nudicaudus* TROUESSART, Catal. Mamm. viv. foss., p. 520.

TYPE LOCALITY.—Guatemala.

*Tylomys panamensis (Gray).

1873. *Neomys panamensis* GRAY, Ann. and Mag. Nat. Hist., ser. 4, vol. 12, p. 417.

1885. *Hesperomys panamensis* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 598. 1885.

1897. [*Tylomys*] *panamensis* TROUESSART, Catal. Mamm. viv. foss., p. 520.

TYPE LOCALITY.—Panama.

†*Tylomys tumbalensis Merriam.

1901. *Tylomys tumbalensis* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 560. November 29, 1901.

TYPE LOCALITY.—Tumbala, State of Chiapas, Mexico.

*Tylomys watsoni Thomas.

1899. *Tylomys watsoni* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 4, p. 278. October, 1899.

TYPE LOCALITY.—Bogava, Chiriqui, Panama. Altitude, 800 feet.

Genus OTOTYLOMYS Merriam.

1901. *Ototylomys* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 561. November 29, 1901. Type, *Ototylomys phyllotis* MERRIAM.

Ototylomys fumeus Allen.

1908. *Ototylomys fumeus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 24, p. 658. October 13, 1908.

TYPE LOCALITY.—Matagalpa, Nicaragua.

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Ototylomys guatemalæ Thomas.

1909. *Ototylomys guatemalæ* THOMAS, Abstr. Proc. Zool. Soc. London, p. 32. June 22, 1909.

TYPE LOCALITY.—Tucuru, Polochie River, about 50 miles east of Coban, Guatemala.

†***Ototylomys phyllotis phyllotis** Merriam.

1901. *Ototylomys phyllotis* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 562. November 29, 1901.

TYPE LOCALITY.—Tunkas, Yucatan.

†***Ototylomys phyllotis phæus** Merriam.

1901. *Ototylomys phyllotis phæus* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 563. November 29, 1901.

TYPE LOCALITY.—Apazote, near Yohaltun, State of Campeche, Mexico.

Genus NECTOMYS Peters.

1861. *Nectomys* PETERS, Abhandl. k. preuss Akad. Wissensch. Berlin, 1860, p. 151. Type, *Mus squamipes* LICHTENSTEIN.

Nectomys dimidiatus Thomas.

1905. *Nectomys dimidiatus* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 15, p. 586. June, 1905.

TYPE LOCALITY.—Escondido River, 7 miles below Rama, Nicaragua.

Genus RHEOMYS Thomas.

1906. *Rheomys* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 18, p. 421. April, 1906. Type, *Rheomys underwoodi* THOMAS.

Rheomys underwoodi Thomas.

1906. *Rheomys underwoodi* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 17, p. 422. April, 1906.

TYPE LOCALITY.—Tres Rios, Costa Rica.

Genus NYCTOMYS Saussure.

1860. *Nyctomys* SAUSSURE, Revue et magasin de zoologie, ser. 2, vol. 12, p. 106. March, 1860. Type, *Hesperomys sumichrasti* SAUSSURE.

1902. *Nyctomys* BANGS, Bull. Mus. Comp. Zool., vol. 39, p. 30. April, 1902.

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*Nyctomys sumichrasti (Saussure).

1861. *Hesperomys sumichrasti* SAUSSURE, Revue et magasin de zoologie, ser. 2, vol. 12, p. 107.

1885. *Hesperomys sumichrasti* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 598. 1885.

1902. *N[yctomys] sumichrasti* BANGS, Bull. Mus. Comp. Zool., vol. 39, p. 30. April, 1902.

TYPE LOCALITY.—Eastern slope of mountains in State of Vera Cruz, Mexico.

†*Nyctomys decolorus (True).

1894. *Sitomys (Rhipidomys) decolorus* TRUE, Proc. U. S. Nat. Mus., vol. 16 (1893), p. 689. February 5, 1894.

1902. *N[yctomys] decolorus* BANGS, Bull. Mus. Comp. Zool., vol. 39, p. 30. April, 1902.

TYPE LOCALITY.—Rio de las Piedras, Honduras.

*Nyctomys nitellinus Bangs.

1902. *Nyctomys nitellinus* BANGS, Bull. Mus. Comp. Zool., vol. 39, p. 30. April, 1902.

TYPE LOCALITY.—Boquete, Chiriqui, Panama. Altitude, 4.000 feet.

Genus SIGMODON Say and Ord.[1]

1825. *Sigmodon* SAY and ORD, Journ. Acad. Nat. Sci. Philadelphia, vol. 4, pt. 2, p. 352. Type, *Sigmodon hispidus* SAY and ORD.

*Sigmodon hispidus hispidus Say and Ord.

1825. *Sigmodon hispidus* SAY and ORD, Journ. Acad. Nat. Sci. Philadelphia, vol. 4, pt. 2, p. 354.

1885. *Sigmodon hispidus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 598. 1885. (Part.)

TYPE LOCALITY.—St. Johns River, Florida.

RANGE.—North Carolina to northern Florida and west to southern Louisiana, in Austroriparian zone.

*Sigmodon hispidus littoralis Chapman.

1889. *Sigmodon hispidus littoralis* CHAPMAN, Bull. Amer. Mus. Nat. Hist., vol. 2, p. 118. June 7, 1889.

TYPE LOCALITY.—East Peninsula, opposite Micco, Brevard County, Florida.

RANGE.—Eastern part of the Peninsula of Florida, from Lake Harney to the Everglades.

[1] Revised by Bailey, Proc. Biol. Soc. Washington, vol. 15, pp. 101–116, June 2, 1902.

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***Sigmodon hispidus spadicipygus** Bangs.

1898. *Sigmodon hispidus spadicipygus* Bangs, Proc. Boston Soc. Nat. Hist., vol. 28, p. 192. March, 1898.

Type Locality.—Cape Sable, Monroe County, Florida.

Range.—The extreme southern part of the Peninsula of Florida.

***Sigmodon hispidus texianus** (Audubon and Bachman).

1853. *Arvicola texiana* Audubon and Bachman, Quadr. N. Amer., vol. 3, p. 229.

1891. *Sigmodon hispidus texianus* Allen, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 287. June 30, 1891.

Type Locality.—Brazos River, Texas.

Range.—Approximately the eastern half of Texas, westward to Vernon and San Antonio, and northward to Cairo, Kansas.

†*Sigmodon hispidus berlandieri (Baird).

1855. *Sigmodon berlandieri* Baird, Proc. Acad. Nat. Sci. Philadelphia, vol. 7, p. 333.

†1897. *Sigmodon hispidus pallidus* Mearns, Preliminary diagnoses of new mammals of the genera Sciurus, Castor, Neotoma and Sigmodon, from the Mexican border of the United States, p. 4. March 15, 1897. (Reprint: Proc. U. S. Nat. Mus., vol. 20, p. 504. January 19, 1898.) Left bank of the Rio Grande, about 6 miles above El Paso, El Paso County, Texas.

1902. *Sigmodon hispidus berlandieri* Bailey, Proc. Biol. Soc. Washington, vol. 15, p. 106. June 2, 1902.

Type Locality.—Rio Nazas, Coahuilla, Mexico.

Range.—Rio Grande and Pecos Valleys from Brownsville to El Paso, Texas, and Carlsbad, New Mexico; south to southern Jalisco, Mexico.

***Sigmodon hispidus eremicus** Mearns.

1897. *Sigmodon hispidus eremicus* Mearns, Preliminary diagnoses of new mammals of the genera Sciurus, Castor, Neotoma and Sigmodon, from the Mexican border of the United States, p. 4. March 15, 1897. (Reprint: Proc. U. S. Nat. Mus., vol. 20, p. 504. January 19,1898.)

Type Locality.—Cienega Well, 30 miles south of monument No. 204, Mexican boundary line, on the left bank of the Colorado River, State of Sonora, Mexico.

Range.—Along both sides of the lower Colorado River.

***Sigmodon hispidus arizonæ** Mearns.

1890. *Sigmodon hispidus arizonæ* Mearns, Bull. Amer. Mus. Nat. Hist., vol. 2, p. 287. February 21, 1890.

Type Locality.—Fort Verde, Yavapai County, Arizona.

Range.—Known only from type locality.

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***Sigmodon hispidus mascotensis** (Allen).

1897. *Sigmodon mascotensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 9, p. 54. March 15, 1897.

1897. *Sigmodon colimæ* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 9, p. 55. March 15, 1897. (Plains of Colima, State of Colima, Mexico.)

1902. *Sigmodon hispidus mascotensis* BAILEY, Proc. Biol. Soc. Washington, vol. 15, p. 108. June 2, 1902.

TYPE LOCALITY.—Mineral San Sebastian, Mascota, State of Jalisco, Mexico.

RANGE.—West coast of Mexico from western Jalisco to southern Oaxaca.

According to Allen (Bull. Amer. Mus. Nat. Hist., vol. 22, p. 209, July 25, 1906), this should stand as *S. hispidus colimæ*.

†*Sigmodon hispidus tonalensis Bailey.

1902. *Sigmodon hispidus tonalensis* BAILEY, Proc. Biol. Soc. Washington, vol. 15, p. 109. June 2, 1902.

TYPE LOCALITY.—Tonala, Chiapas, Mexico.

RANGE.—Western Chiapas and eastern Oaxaca

Sigmodon hispidus griseus Allen.

1908. *Sigmodon hispidus griseus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 24, p. 657. October 13, 1908.

TYPE LOCALITY.—Chontales (in the coast lowlands). Nicaragua.

***Sigmodon hispidus baileyi** (Allen).

1903. *Sigmodon baileyi* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 19, p. 601. November 12, 1903.

TYPE LOCALITY.—La Cienega de las Vacas, northwest Durango, Mexico. Altitude, 8,500 feet.

†*Sigmodon hispidus major Bailey.

1902. *Sigmodon hispidus major* BAILEY, Proc. Biol. Soc. Washington, vol. 15, p. 109. June 2, 1902.

TYPE LOCALITY.—Sierra de Choix, 50 miles northeast of Choix, Sinaloa, Mexico.

RANGE.—West coast of Mexico from Tepic to southern Sonora.

***Sigmodon hispidus inexoratus** Elliot.

1903. *Sigmodon hispidus inexoratus* ELLIOT, Field Columb. Mus., publ. 71, zool. ser., vol. 3, p. 144. February, 1903.

TYPE LOCALITY.—Ocotlan, Jalisco. Mexico.

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***Sigmodon hispidus toltecus** (Saussure).

1860. *Hesperomys toltecus* SAUSSURE, Revue et magasin de zoologie, ser. 2, vol. 12, p. 98.

1902. *Sigmodon hispidus toltecus* BAILEY, Proc. Biol. Soc. Washington, vol. 15, p. 110. June 2, 1902.

TYPE LOCALITY.—Mountains of the State of Vera Cruz, Mexico.

RANGE.—Eastern Mexico from Alta Mira, southern Tamaulipas to Orizaba, Vera Cruz.

†*Sigmodon hispidus saturatus Bailey.

1902. *Sigmodon hispidus saturatus* BAILEY, Proc. Biol. Soc. Washington, vol. 15, p. 111. June 2, 1902.

TYPE LOCALITY.—Teapa, Tabasco, Mexico.

RANGE.—Mainly in Chiapas, Tabasco, and southern Vera Cruz.

Sigmodon hispidus furvus BANGS (see page 400)

†*Sigmodon hispidus microdon Bailey.

1902. *Sigmodon hispidus microdon* BAILEY, Proc. Biol. Soc. Washington, vol. 15, p. 111. June 2, 1902.

TYPE LOCALITY.—Puerto Morelos, Yucatan.

RANGE.—Northern Yucatan and Campeche.

***Sigmodon hispidus borucæ** (Allen).

1897. *Sigmodon borucæ* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 9, p. 40. March 11, 1897.

1902. *Sigmodon hispidus borucæ* BAILEY, Proc. Biol. Soc. Washington, vol. 15, p. 112. June 2, 1902.

TYPE LOCALITY.—Boruca, Costa Rica.

RANGE.—Costa Rica; specimens examined from the type locality only.

Sigmodon hispidus chiriquensis (Allen,

1904. *Sigmodon borucæ chiriquensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 20, p. 68. February 29, 1904.

TYPE LOCALITY.—Boqueron, Chiriqui, Panama.

Sigmodon austerulus Bangs.

1902. *Sigmodon austerulus* BANGS, Bull. Mus. Comp. Zool., vol. 39, p. 32. April, 1902.

TYPE LOCALITY.—Volcan de Chiriqui, Chiriqui, Panama. Altitude, 10,000 feet.

Sigmodon vulcani Allen.

1906. *Sigmodon vulcani* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 22, p. 247. July 25, 1906.

TYPE LOCALITY.—Volcan de Fuego, Jalisco, Mexico. Altitude, 10,000 feet.

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†*Sigmodon alleni Bailey.

1902. *Sigmodon alleni* BAILEY, Proc. Biol. Soc. Washington, vol. 15, p. 112. June 2, 1902.

TYPE LOCALITY.—San Sebastian, Mascota, Jalisco, Mexico.

RANGE.—Western Jalisco and southern Tepic in western Mexico.

According to Allen (Bull. Amer. Mus. Nat. Hist., vol. 22, p. 210, July 25, 1906), the name *alleni* "is beyond question a synonym of *mascotensis*."

*Sigmodon fulviventer Allen.

1889. *Sigmodon fulviventer* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 2, p. 180. October 21, 1889.

TYPE LOCALITY.—Zacatecas, State of Zacatecas, Mexico.

RANGE.—Known only from two localities; from about 8,000 feet altitude near the city of Zacatecas and from Durango, Durango.

†*Sigmodon melanotis Bailey

1902. *Sigmodon melanotis* BAILEY, Proc. Biol. Soc. Washington, vol. 15, p. 114. June 2, 1902.

TYPE LOCALITY.—Patzcuaro, Michoacan, Mexico, at 7,000 feet altitude.

RANGE.—Known only from a series of 15 specimens from Patzcuaro.

†*Sigmodon minimus Mearns.

1894. *Sigmodon minima* MEARNS, Proc. U. S. Nat. Mus., vol. 17, p. 130. July 19, 1894.

TYPE LOCALITY.—Upper corner monument, Grant County, New Mexico, on the Mexican boundary line, 100 miles west of the initial monument on the west bank of the Rio Grande.

RANGE.—Mountains of southern New Mexico, Arizona, and northern Mexico.

†*Sigmodon ochrognathus Bailey.

1902. *Sigmodon ochrognathus* BAILEY, Proc. Biol. Soc. Washington, vol. 15, p. 115. June 2, 1902.

TYPE LOCALITY.—Chisos Mountains, Brewster County, Texas, 8,000 feet altitude.

RANGE.—The transition zone top of the Chisos Mountains, Texas, and 6,700 feet altitude near Parral, Chihuahua.

†*Sigmodon leucotis Bailey.

1902. *Sigmodon leucotis* BAILEY, Proc. Biol. Soc. Washington, vol. 15, p. 115. June 2, 1902.

TYPE LOCALITY.—Valparaiso Mountains, Zacatecas, Mexico, 8,700 feet altitude.

RANGE.—Known only from the type locality.

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†*Sigmodon alticola alticola Bailey.

1902. *Sigmodon alticola* BAILEY, Proc. Biol. Soc. Washington, vol. 15, p. 116. June 2, 1902.

TYPE LOCALITY.—Cerro San Felipe, Oaxaca, Mexico, at 10,000 feet altitude.

RANGE.—Mountains of Oaxaca.

†*Sigmodon alticola amoles Bailey.

1902. *Sigmodon alticola amoles* BAILEY, Proc. Biol. Soc. Washington, vol. 15, p. 116. June 2, 1902.

TYPE LOCALITY.—Pinal de Amoles, Queretaro, Mexico, at 7,000 feet altitude.

RANGE.—Known from only two specimens from type locality.

Genus AKODON Meyen.

1833. *Akodon* MEYEN, Nova acta phys. med. acad. caes. Leop.-Carol., vol. 16, pt. 2, p. 599. Type, *Akodon boliviense* MEYEN.

*Akodon irazu Allen.

1904. *Akodon irazu* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 20, p. 46. February 29, 1904.

TYPE LOCALITY.—Volcan de Irazú, Costa Rica.

*Akodon teguina teguina (Alston).

1876. *Hesperomys teguina* ALSTON, Proc. Zool. Soc. London, p. 755.

1885. *Hesperomys teguina* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 598. 1885.

1897. [*Akodon*] *teguina* TROUESSART, Catal. Mamm. viv. foss., p. 537.

TYPE LOCALITY.—Coban, Guatemala.

Akodon teguina apricus Bangs.

1902. *Akodon teguina apricus* BANGS, Bull. Mus. Comp. Zool., vol. 39, p. 40. April, 1902.

TYPE LOCALITY.—Boquete, Chiriqui, Panama. Altitude, 4,000 feet.

Akodon xerampelinus Bangs.

1902. *Akodon xerampelinus* BANGS, Bull. Mus. Comp. Zool., vol. 39, p. 41. April, 1902.

TYPE LOCALITY.—Volcan de Chiriqui, Chiriqui, Panama. Altitude, 10,300 feet.

Genus NEOTOMODON Merriam.

1898. *Neotomodon* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 127. April 30, 1898. Type, *Neotomodon alstoni* MERRIAM.

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†*Neotomodon alstoni Merriam.

1898. *Neotomodon alstoni* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 128. April 30, 1898.

TYPE LOCALITY.—Nahuatzin, State of Michoacan, Mexico. Altitude, 8,500 feet.

†*Neotomodon orizabæ Merriam.

1898. *Neotomodon orizabæ* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 129. April 30, 1898.

TYPE LOCALITY.—Mount Orizaba, State of Puebla, Mexico. Altitude, 9,500 feet.

†*Neotomodon perotensis Merriam.

1898. *Neotomodon perotensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 129. April 30, 1898.

TYPE LOCALITY.—Cofre de Perote, State of Vera Cruz, Mexico. Altitude, 9,500 feet.

Subfamily NEOTOMINÆ.

Genus NELSONIA Merriam.

1897. *Nelsonia* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 277. December 17, 1897. Type, *Nelsonia neotomodon* MERRIAM.

†*Nelsonia neotomodon Merriam.

1897. *Nelsonia neotomodon* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 278. December 17, 1897.

TYPE LOCALITY.—Mountains near Plateado, State of Zacatecas, Mexico. Altitude, 8,200 feet.

†*Nelsonia goldmani Merriam.

1903. *Nelsonia goldmani* MERRIAM, Proc. Biol. Soc. Washington, vol. 16, p. 80. May 29, 1903.

TYPE LOCALITY.—Mount Tancitaro, Michoacan, Mexico.

Genus TEANOPUS Merriam.

1903. *Teanopus* MERRIAM, Proc. Biol. Soc. Washington, vol. 16, p 81. May 29, 1903. Type, *Teanopus phenax* MERRIAM.

†*Teanopus phenax Merriam.

1903. *Teanopus phenax* MERRIAM, Proc. Biol. Soc. Washington, vol. 16, p. 81. May 29, 1903.

TYPE LOCALITY.—Camoa, Rio Mayo, Sonora, Mexico.

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Genus NEOTOMA Say and Ord.[1]

1825. *Neotoma* SAY and ORD, Journ. Acad. Nat. Sci. Philadelphia, vol. 4, pt. 2, p. 345. Type, *Mus floridana* ORD

Subgenus NEOTOMA Say and Ord.

***Neotoma floridana floridana** (Ord).

1818. *Mus floridana* ORD, Bull. soc. philom. Paris, p. 181. December, 1818.

1825. *N[eotoma] floridana* SAY and ORD, Journ. Acad. Nat. Sci. Philadelphia, vol. 4, pt. 2, p. 346.

1885. *Neotoma floridana* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 598. 1885. (Part.)

TYPE LOCALITY.—St. Johns River, Florida; probably near Jacksonville, Duval County. (See Bangs, Proc. Boston Soc. Nat. Hist., vol. 28, p. 184, March, 1898.)

RANGE.—Atlantic coast region from South Carolina to Sebastian, Florida. Austroriparian zone.

***Neotoma floridana rubida** Bangs.

1898. *Neotoma floridana rubida* BANGS, Proc. Boston Soc. Nat. Hist., vol. 28, p. 185. March, 1898.

TYPE LOCALITY.—Gibson, Terrebonne Parish, Louisiana.

RANGE.—Lower Mississippi Valley and Gulf coast, from southwestern Alabama to eastern Texas, north to eastern Arkansas. Austroriparian zone.

†*Neotoma floridana illinoensis Howell.

1910. *Neotoma floridana illinoensis* HOWELL, Proc. Biol. Soc. Washington, vol. 23, p. 28. March 23, 1910.

TYPE LOCALITY.—Wolflake, Union County, Illinois.

RANGE.—Swamp region of southern Illinois, and southward to northeastern Arkansas. Austroriparian division of lower austral zone.

†*Neotoma floridana baileyi (Merriam).

1894. *Neotoma baileyi* MERRIAM, Proc. Biol. Soc. Washington, vol. 9, p. 123. July 2, 1894.

1894. *Neotoma campestris* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 6, p. 322. November 7, 1894. (Pendennis, Lane County, Kansas.)

1905. *Neotoma floridana baileyi* BAILEY, North Amer. Fauna, No. 25, p. 109. October 24, 1905.

TYPE LOCALITY.—Valentine, Cherry County, Nebraska.

RANGE.—Upper Sonoran and Carolinian divisions of upper austral zone from southwestern South Dakota to southern Kansas, west to Pueblo, Colorado.

[1] Revised by Goldman, North Amer. Fauna, No. 31, October 19, 1910.

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***Neotoma floridana attwateri** Mearns.

1897. *Neotoma attwateri* MEARNS, Proc. U. S. Nat. Mus., vol. 19, p. 721. July 30, 1897.

1901. [*Neotoma floridana*] *attwateri* ELLIOT, Syn. Mamm. N. Amer., p. 157. March, 1901.

TYPE LOCALITY.—Lacey's Ranch, Turtle Creek, Kerr County, Texas.

RANGE.—Mainly lower Sonoran and austroriparian divisions of lower austral zone in central Texas, passing into *N. f. baileyi* in Oklahoma and northern Arkansas.

†*Neotoma micropus micropus Baird.

1855. *Neotoma micropus* BAIRD, Proc. Acad. Nat. Sci. Philadelphia, p. 333. April, 1855.

1891. *Neotoma micropus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 282. June 30, 1891.

1899. *Neotoma macropus* [sic] *surberi* ELLIOT, Field Columb. Mus., publ. 37, zool. ser., vol. 1, p. 279. May 9, 1899. (Three miles west of Alva, Woods County, Oklahoma.)

TYPE LOCALITY.—Charco Escondido, State of Tamaulipas, Mexico.

RANGE.—Southeastern Colorado and southern Kansas, south through Oklahoma and central Texas to southern Tamaulipas, mainly in lower Sonoran zone.

***Neotoma micropus canescens** Allen.

1891. *Neotoma micropus canescens* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 285. June 30, 1891.

TYPE LOCALITY.—North Beaver Creek, Beaver County, Oklahoma.

RANGE.—From southeastern Colorado, northwestern Oklahoma, and northern and western Texas, west in New Mexico to the Rio Grande Valley and south to southern Coahuila, mainly in lower Sonoran zone.

†*Neotoma micropus littoralis Goldman.

1905. *Neotoma micropus littoralis* GOLDMAN, Proc. Biol. Soc. Washington, vol. 18, p. 31. February 2, 1905.

TYPE LOCALITY.—Alta Mira, Tamaulipas, Mexico. Altitude, 100 feet.

RANGE.—Arid tropical zone in southern Tamaulipas, Mexico.

†*Neotoma micropus planiceps Goldman.

1905. *Neotoma micropus planiceps* GOLDMAN, Proc. Biol. Soc. Washington, vol. 18, p. 32. February 2, 1905.

TYPE LOCALITY.—Rio Verde, San Luis Potosi, Mexico. Altitude, 3,000 feet.

RANGE.—Plains of southern San Luis Potosi. Lower Sonoran zone.

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***Neotoma albigula albigula** Hartley.

1894. *Neotoma albigula* HARTLEY, Proc. California Acad. Sci., ser. 2, vol. 4, p. 157. May 9, 1894.

†1894. *Neotoma intermedia angusticeps* MERRIAM, Proc. Biol. Soc. Washington, vol. 9, p. 127. July 2, 1894. (Northwest corner of Grant County, New Mexico.)

TYPE LOCALITY.—Vicinity of Fort Lowell, near Tucson, Pima County, Arizona.

RANGE.—Northern New Mexico to southern Coahuila, Mexico, and from central Texas to western Arizona. Upper and lower Sonoran zones.

†*Neotoma albigula venusta (True).

1894. *Neotoma venusta* TRUE, Diagnoses of some undescribed wood rats (genus Neotoma) in the National Museum, p. 2. June 27, 1894. (Reprint: Proc. U. S. Nat. Mus., vol. 17, p. 354. November 15, 1894.)

†1898. *Neotoma cumulator* MEARNS, Proc. U. S. Nat. Mus., vol. 20, p. 503. January 19, 1898.

1903. *Neotoma desertorum grandis* ELLIOT, Field Columb. Mus., publ. 87, zool. ser., vol. 3, p. 247. December, 1903. (Cameron Lake, Sierra Nevada, Kern County, California.)

TYPE LOCALITY.—Carrizo Creek, San Diego County, California.

RANGE.—Colorado River Valley from northwestern Arizona to Gulf of California and west through southern California to eastern basal slopes of southern Sierra Nevada, San Bernardino, and San Jacinto Mountains. Lower Sonoran zone.

†*Neotoma albigula warreni Merriam.

1908. *Neotoma albigula warreni* MERRIAM, Proc. Biol. Soc. Washington, vol. 21, p. 143. June 9, 1908.

TYPE LOCALITY.—Gaume's Ranch, Baca County (northwest corner), Colorado. Altitude, 4,600 feet.

RANGE.—Plains region of southeastern Colorado and northeastern New Mexico. Upper Sonoran zone.

†*Neotoma albigula melanura (Merriam).

1894. *Neotoma intermedia melanura* MERRIAM, Proc. Biol. Soc. Washington, vol. 9, p. 126. July 2, 1894.

1910. *Neotoma albigula melanura* GOLDMAN, North Amer. Fauna, No. 31, p. 35. October 19, 1910.

TYPE LOCALITY.—Ortiz, State of Sonora, Mexico.

RANGE.—Western basal slopes of Sierra Madre in southern Sonora and southwestern Chihuahua. Lower Sonoran and upper part of arid tropical zones.

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†*Neotoma albigula leucodon (Merriam).

1894. *Neotoma leucodon* MERRIAM, Proc. Biol. Soc. Washington, vol. 9, p. 120. July 2, 1894.

1910. *Neotoma albigula leucodon* GOLDMAN, North Amer. Fauna, No. 31, p. 36. October 19, 1910.

TYPE LOCALITY.—San Luis Potosi, State of San Luis Potosi, Mexico.

RANGE.—Mexican plateau region from western Nuevo Leon south to the northern part of the State of Mexico. Upper and lower Sonoran zones.

*Neotoma albigula durangæ (Allen).

1903. *Neotoma intermedia durangæ* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 19, p. 602. November 12, 1903.

1910. *Neotoma albigula durangæ* GOLDMAN, North Amer. Fauna, No. 31, p. 37. October 19, 1910.

TYPE LOCALITY.—San Gabriel, northwestern Durango, Mexico.

RANGE.—Eastern basal slopes of the Sierra Madre west of and above the range of *N. albigula*, from central Durango to southwestern Chihuahua, Mexico. Upper Sonoran zone.

†*Neotoma albigula zacatecæ (Goldman).

1905. *Neotoma leucodon zacatecæ* GOLDMAN, Proc. Biol. Soc. Washington, vol. 18, p. 30. February 2, 1905.

1910. *Neotoma albigula zacatecæ* GOLDMAN, North Amer. Fauna, No. 31, p. 38. October 19, 1910.

TYPE LOCALITY.—Plateado, Zacatecas, Mexico. Altitude, 7,600 feet.

RANGE.—Sierra Madre in western Zacatecas, Mexico. Transition zone.

†*Neotoma albigula seri Townsend.

1912. *Neotoma albigula seri* TOWNSEND, Bull. Amer. Mus. Nat. Hist., vol. 31, p. 125. June 14, 1912.

TYPE LOCALITY.—Tiburon Island, Gulf of California, Mexico.

†*Neotoma latifrons Merriam.

1894. *Neotoma latifrons* MERRIAM, Proc. Biol. Soc. Washington, vol. 9, p. 121. July 2, 1894.

TYPE LOCALITY.—Querendaro, State of Michoacan, Mexico.

RANGE.—Known only from type locality. Lower part of lower Sonoran zone.

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†*Neotoma nelsoni Goldman.

1905. *Neotoma nelsoni* GOLDMAN, Proc. Biol. Soc. Washington, vol. 18, p. 29. February 2, 1905.

TYPE LOCALITY.—Perote, Vera Cruz, Mexico. Altitude, 7,800 feet.

RANGE.—High plains along the eastern edge of the Mexican plateau region in eastern Puebla and extreme west-central Vera Cruz. Upper Sonoran zone.

†*Neotoma palatina Goldman.

1905. *Neotoma palatina* GOLDMAN, Proc. Biol. Soc. Washington, vol. 18, p. 27. February 2, 1905.

TYPE LOCALITY.—Bolaños, Jalisco, Mexico. Altitude, 2,800 feet.

RANGE.—Known only from the type locality in the canyon of the Bolaños River. Arid tropical zone.

†*Neotoma montezumæ Goldman.

1905. *Neotoma montezumæ* GOLDMAN, Proc. Biol. Soc. Washington, vol. 18, p. 29. February 2, 1905.

TYPE LOCALITY.—Zimapan, Hidalgo, Mexico. Altitude, 7,500 feet.

RANGE.—Known only from the type locality on the high plains of western Hidalgo. Upper Sonoran zone.

*Neotoma intermedia intermedia Rhoads.

1894. *Neotoma intermedia* RHOADS, Amer. Nat., vol. 28, p. 69. January, 1894.

1894. *Neotoma californica* PRICE, Proc. California Acad. Sci., ser. 2, vol. 4, p. 154, pl. 11. May 9, 1894. (Bear Valley, San Benito County, California.)

TYPE LOCALITY.—Dulzura, San Diego County, California.

RANGE.—Lower slopes of southern part of Sierra Nevada and coast region of California from Monterey Bay southward and throughout the mountains of Lower California to near Cape San Lucas. Upper and lower Sonoran zones.

*Neotoma intermedia gilva Rhoads.

1894. *Neotoma intermedia gilva* RHOADS, Amer. Nat., vol. 28, p. 70. January, 1894.

†1894. *Neotoma desertorum sola* MERRIAM, Proc. Biol. Soc. Washington, vol. 19, p. 126. July 2, 1894. (San Emigdio, Kern County, California.)

1903. *Neotoma bella felipensis* ELLIOT, Field Columb. Mus., publ. 79, zool. ser., vol. 3, p. 217. June, 1903. (San Felipe, Lower California, Mexico.)

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Neotoma intermedia gilva—Continued.

TYPE LOCALITY.—Banning, San Bernardino County, California.

RANGE.—Arid plains and basal slopes of mountains mainly along the eastern border of the range of *N. intermedia*, from Stanley in Fresno County, California, south through northeastern Lower California to the Santa Clara Mountains on the west side of the peninsula. Lower Sonoran zone.

†***Neotoma intermedia pretiosa** Goldman.

1909. *Neotoma intermedia pretiosa* GOLDMAN, Proc. Biol. Soc. Washington, vol. 22, p. 139. June 25, 1909.

TYPE LOCALITY.—Matancita (also called Soledad), 50 miles north of Magdalena Bay, Lower California, Mexico. Altitude, 100 feet.

RANGE.—West coast and islands of Lower California, from San Jorge (southwest of Comondu) south to Margarita Island. Lower Sonoran zone.

***Neotoma intermedia arenacea** (Allen).

1898. *Neotoma arenacea* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 150. April 12, 1898.

1910. *Neotoma intermedia arenacea* GOLDMAN, North Amer. Fauna, No. 31, p. 47. October 19, 1910.

TYPE LOCALITY.—San José del Cabo, Lower California, Mexico.

RANGE.—Coastal plains and basal mountain slopes in the Cape region of Lower California, north at least to La Paz. Mainly overlapping portions of lower Sonoran and arid tropical zones.

†***Neotoma intermedia vicina** Goldman.

1909. *Neotoma intermedia vicina* GOLDMAN, Proc. Biol. Soc. Washington, vol. 22, p. 140. June 25, 1909.

TYPE LOCALITY.—Espiritu Santo Island, off east coast of Lower California, Mexico.

RANGE.—Espiritu Santo Island, Gulf of California, Mexico. Lower Sonoran zone and upper border of arid tropical zone.

†***Neotoma intermedia perpallida** Goldman.

1909. *Neotoma intermedia perpallida* GOLDMAN, Proc. Biol. Soc. Washington, vol. 22, p. 139. June 25, 1909.

TYPE LOCALITY.—San José Island, off east coast of Lower California, Mexico.

RANGE.—San José Island, Gulf of California, Mexico. Lower Sonoran zone.

†***Neotoma insularis** Townsend.

1912. *Neotoma insularis* TOWNSEND, Bull. Amer. Mus. Nat. Hist., vol. 31, p. 125. June 14, 1912.

TYPE LOCALITY.—Angel de la Guardia Island, Gulf of California, Mexico.

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Neotoma abbreviata Goldman.

1909. *Neotoma abbreviata* GOLDMAN, Proc. Biol. Soc. Washington, vol. 22, p. 140. June 25, 1909.

TYPE LOCALITY.—San Francisco Island (near southern end of San José Island), Gulf of California.

RANGE.—Known only from San Francisco Island, in the Gulf of California. Lower Sonoran zone.

†***Neotoma nudicauda** Goldman.

1905. *Neotoma nudicauda* GOLDMAN, Proc. Biol. Soc. Washington, vol. 18, p. 28. February 2, 1905.

TYPE LOCALITY.—Carmen Island, Lower California, Mexico.

RANGE.—Known only from Carmen Island, in the Gulf of California, Mexico. Lower Sonoran zone.

†***Neotoma bryanti** Merriam.

1887. *Neotoma bryanti* MERRIAM, Amer. Nat., vol. 21, p. 191. February, 1887.

TYPE LOCALITY.—Cerros Island, Lower California, Mexico.

RANGE.—Cerros Island, off west coast of Lower California, Mexico. Upper Sonoran zone.

***Neotoma anthonyi** Allen.

1898. *Neotoma anthonyi* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 151. April 12, 1898.

TYPE LOCALITY.—Todos Santos Island, Lower California, Mexico.

RANGE.—Todos Santos Island, off west coast of Lower California, Mexico. Upper Sonoran zone.

†***Neotoma martinensis** Goldman.

1905. *Neotoma martinensis* GOLDMAN, Proc. Biol. Soc. Washington, vol. 18, p. 28. February 2, 1905.

TYPE LOCALITY.—San Martin Island, Lower California, Mexico.

RANGE.—San Martin Island, off west coast of Lower California Mexico. Upper Sonoran zone.

†***Neotoma mexicana mexicana** Baird.

1855. *Neotoma mexicana* BAIRD, Proc. Acad. Nat. Sci. Philadelphia, vol. 7, p. 333. April, 1855.

1893. *Neotoma mexicana* MERRIAM, Proc. Biol. Soc. Washington, vol. 8, p. 111. July 31, 1893.

TYPE LOCALITY.—Mountains near Chihuahua, State of Chihuahua, Mexico.

RANGE.—Desert ranges along the eastern side of the Sierra Madre in Chihuahua and northwestern Durango, and thence northward in the mountains to western Texas, southwestern New Mexico, and southeastern Arizona. Upper Sonoran and transition zones.

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†*Neotoma mexicana fallax (Merriam).

1894. *Neotoma fallax* MERRIAM, Proc. Biol. Soc. Washington, vol. 9, p. 123. July 2, 1894.

1910. *Neotoma mexicana fallax* GOLDMAN, North Amer. Fauna, No. 31, p. 56. October 19, 1910.

TYPE LOCALITY.—Gold Hill, Boulder County, Colorado.

RANGE.—Mountains of Colorado and northern and central New Mexico. Upper Sonoran and transition zones.

†*Neotoma mexicana pinetorum (Merriam).

1893. *Neotoma pinetorum* MERRIAM, Proc. Biol. Soc. Washington, vol. 8, p. 111. July 31, 1893.

1910. *Neotoma mexicana pinetorum* GOLDMAN, North Amer. Fauna, No. 31, p. 58. October 19, 1910.

TYPE LOCALITY.—San Francisco Mountain, Coconino County, Arizona.

RANGE.—Plateau region from San Francisco Mountain, Arizona, north to the Grand Canyon and southeastward along the Mogollon Mesa to the Mogollon and Mimbres Mountains in western New Mexico. Transition zone.

†*Neotoma mexicana bullata Merriam.

1894. *Neotoma mexicana bullata* MERRIAM, Proc. Biol. Soc. Washington, vol. 9, p. 122. July 2, 1894.

TYPE LOCALITY.—Santa Catalina Mountains, Arizona.

RANGE.—Known only from the type locality. Transition zone.

†*Neotoma mexicana madrensis Goldman.

1905. *Neotoma mexicana madrensis* GOLDMAN, Proc. Biol. Soc. Washington, vol. 18, p. 31. February 2, 1905.

TYPE LOCALITY.—Sierra Madre, near Guadalupe y Calvo, Chihuahua, Mexico. Altitude, 7,000 feet.

RANGE.—The Sierra Madre from northwestern Chihuahua and northeastern Sonora southward to western Zacatecas. Transition zone.

*Neotoma mexicana sinaloæ (Allen).

1898. *Neotoma sinaloæ* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 149. April 12, 1898.

1910. *Neotoma mexicana sinaloæ* GOLDMAN, North Amer. Fauna, No. 31, p. 60. October 19, 1910.

TYPE LOCALITY.—Tatameles, State of Sinaloa, Mexico.

RANGE.—Western slope of the Sierra Madre from southern Sinaloa northward to Sonora. Lower Sonoran zone.

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†*Neotoma navus Merriam.

1903. *Neotoma navus* MERRIAM, Proc. Biol. Soc. Washington, vol. 16, p. 47. March 19, 1903.

TYPE LOCALITY.—Sierra Guadalupe, Coahuila, Mexico.

RANGE.—High mountains of southern Coahuila, Mexico. Transition zone.

*Neotoma torquata Ward.

1891. *Neotoma torquata* WARD, Amer. Nat., vol. 25, p. 160. February, 1891.

†1894. *Neotoma fulviventer* MERRIAM, Proc. Biol. Soc. Washington, vol. 9, p. 121. July 2, 1894. (Toluca Valley, Mexico.)

†1894. *Neotoma orizabæ* MERRIAM, Proc. Biol. Soc. Washington, vol. 9, p. 122. July 2, 1894. (Mount Orizaba, Puebla, Mexico.)

TYPE LOCALITY.—Abandoned mine between Tetela del Volcan and Zacualpan, State of Morelos, Mexico.

RANGE.—High mountains of south-central Mexico, from northern Hidalgo to eastern Puebla and Morelos. Upper Sonoran, transition, and boreal zones.

*Neotoma distincta Bangs.

1903. *Neotoma distincta* BANGS, Proc. Biol. Soc. Washington, vol. 16, p. 89. June 25, 1903.

TYPE LOCALITY.—Texolo (near Jalapa), Vera Cruz, Mexico.

RANGE.—Known only from the type locality. Humid tropical zone.

†*Neotoma tropicalis Goldman.

1904. *Neotoma tropicalis* GOLDMAN, Proc. Biol. Soc. Washington, vol. 17, p. 81. March 21, 1904.

TYPE LOCALITY.—Totontepec, Oaxaca, Mexico. Altitude, 6,500 feet.

RANGE.—Mountains of northeastern Oaxaca, Mexico. Humid tropical zone.

†*Neotoma parvidens Goldman.

1904. *Neotoma parvidens* GOLDMAN, Proc. Biol. Soc. Washington, vol. 17, p. 81. March 21, 1904.

TYPE LOCALITY.—Juquila, Oaxaca, Mexico. Altitude, 5,000 feet.

RANGE.—Known only from the type locality in the mountains of southwestern Oaxaca. Humid tropical zone.

Neotoma ferruginea ferruginea Tomes.

1861. *Neotoma ferruginea* TOMES, Proc. Zool. Soc. London, p. 282.

1885. *Neotoma ferruginea* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 598. 1885. (Part.)

TYPE LOCALITY.—Dueñas, Guatemala.

RANGE.—Known only from the type locality.

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†*Neotoma ferruginea chamula Goldman.

1909. *Neotoma ferruginea chamula* GOLDMAN, Proc. Biol. Soc. Washington, vol. 22, p. 141. June 25, 1909.

TYPE LOCALITY.—Mountains near San Cristobal, Chiapas, Mexico. Altitude, 8,400 feet.

RANGE.—High mountains of central Chiapas, Mexico, and southwestern Guatemala. Transition and Canadian zones.

†*Neotoma ferruginea solitaria Goldman.

1905. *Neotoma ferruginea solitaria* GOLDMAN, Proc. Biol. Soc. Washington, vol. 18, p. 31. February 2, 1905.

TYPE LOCALITY.—Nenton, Guatemala. Altitude, 3,500 feet.

RANGE.—Known only from the type locality, near the upper end of the Chiapas Valley. Arid tropical zone.

†*Neotoma ferruginea isthmica (Goldman).

1904. *Neotoma isthmica* GOLDMAN, Proc. Biol. Soc. Washington, vol. 17, p. 80. March 21, 1904.

1910. *Neotoma ferruginea isthmica* GOLDMAN, North Amer. Fauna, No. 31, p. 71. October 19, 1910.

TYPE LOCALITY.—Huilotepec, 8 miles south of Tehuantepec, Oaxaca, Mexico. Altitude, 100 feet.

RANGE.—From Pacific coast region on south side of Isthmus of Tehuantepec, eastward into valley of Chiapas River and northwestward to Coixtlahuaca, Oaxaca. Arid tropical and lower Sonoran zones.

†*Neotoma ferruginea picta (Goldman).

1904. *Neotoma picta* GOLDMAN, Proc. Biol. Soc. Washington, vol. 17, p. 79. March 21, 1904.

1910. *Neotoma ferruginea picta* GOLDMAN, North Amer. Fauna, No. 31, p. 72. October 19, 1910.

TYPE LOCALITY.—Mountains near Chilpancingo, Guerrero, Mexico.

RANGE.—Sierra Madre of Oaxaca and Guerrero, Mexico. Transition and Canadian zones.

†*Neotoma ferruginea tenuicauda (Merriam).

1892. *Neotoma tenuicauda* MERRIAM, Proc. Biol. Soc. Washington, vol. 7, p. 169. September 29, 1892.

1910. *Neotoma ferruginea tenuicauda* GOLDMAN, North Amer. Fauna, No. 31, p. 73. October 19, 1910.

TYPE LOCALITY.—North slope of the Sierra Nevada of Colima, State of Colima, Mexico. Altitude, 12,000 feet.

RANGE.—Plateau region of western Mexico from southern Zacatecas to Mount Tancitaro, Michoacan. Lower Sonoran to boreal zones.

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†*Neotoma ferruginea ochracea Goldman.

1905. *Neotoma ferruginea ochracea* GOLDMAN, Proc. Biol. Soc. Washington, vol. 18, p. 30. February 2, 1905.

TYPE LOCALITY.—Atemajac, near Guadalajara, Jalisco, Mexico. Altitude, 4,000 feet.

RANGE.—Vicinity of the type locality. Lower Sonoran zone.

Neotoma chrysomelas Allen.

1908. *Neotoma chrysomelas* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 24, p. 653. October 13, 1908.

TYPE LOCALITY.—Matagalpa, Nicaragua.

RANGE.—Known only from the type locality, at about 3,000 feet altitude, in central Nicaragua.

†*Neotoma desertorum Merriam.

1894. *Neotoma desertorum* MERRIAM, Proc. Biol. Soc. Washington, vol. 9, p. 125. July 2, 1894.

1899. *Neotoma bella* BANGS, Proc. New Eng. Zool. Club, vol. 1, p. 66. July 31, 1899. (Palm Springs, Riverside County, California.)

1910. *Neotoma nevadensis* TAYLOR, Univ. Calif. Publ. Zool., vol. 5, p. 289, pls. 27. February 12, 1910. (Virgin Valley, Humboldt County, Nevada.)

TYPE LOCALITY.—Furnace Creek, Death Valley, Inyo County, California.

RANGE.—Desert regions in southeastern and northeastern California, Nevada, eastern Oregon, northern and western Utah, east to northwestern Colorado, and south along the west side of the Colorado River to northeastern Lower California. Upper and lower Sonoran zones.

*Neotoma lepida lepida Thomas.

1893. *Neotoma lepida* THOMAS, Ann. and Mag. Nat. Hist., ser. 6, vol. 12, p. 235. September, 1893.

TYPE LOCALITY.—Unknown. (See Goldman, North Amer. Fauna, No. 31, pp. 79–80, October 19, 1910.)

RANGE.—Upper Sonoran zone in the plateau region of northeastern Arizona, north of the Little Colorado River, and northwestern New Mexico south to Gallup, grading to the southward into *stephensi*.

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†*Neotoma lepida stephensi (Goldman).

1905. *Neotoma stephensi* GOLDMAN, Proc. Biol. Soc. Washington, vol. 18, p. 32. February 2, 1905.

1910. *Neotoma lepida stephensi* GOLDMAN, North Amer. Fauna, No. 31, p. 80. October 19, 1910.

TYPE LOCALITY.—Hualpai Mountains, Arizona. Altitude, 6,300 feet.

RANGE.—Upper Sonoran zone along Hualpai, Mogollon, and White Mountains across central Arizona and from the Burro Mountains to the Zuni Mountains in western New Mexico, passing farther north into true *lepida*.

†*Neotoma goldmani Merriam.

1903. *Neotoma goldmani* MERRIAM, Proc. Biol. Soc. Washington, vol. 16, p. 48. March 19, 1903.

TYPE LOCALITY.—Saltillo, Coahuila, Mexico. Altitude, 5,000 feet.

RANGE.—Desert regions in southern Coahuila, Mexico. Lower Sonoran zone.

*Neotoma pennsylvanica Stone.

1893. *Neotoma pennsylvanica* STONE, Proc. Acad. Nat. Sci. Philadelphia, p. 16. February, 1893.

TYPE LOCALITY.—South Mountain, Cumberland County, Pennsylvania.

RANGE.—Appalachian Mountain region from southern New York to northern Alabama, probably including western North Carolina and northern Georgia, and westward to Mammoth Cave, Kentucky, and Lawrenceburg, Tennessee. Alleghenian and Carolinian zones.

Subgenus HOMODONTOMYS Goldman.

1910. *Homodontomys* GOLDMAN, North Amer. Fauna, No. 31, p. 86. October 19, 1910. Type, *Neotoma fuscipes* BAIRD.

†*Neotoma fuscipes fuscipes Baird.

1857. *Neotoma fuscipes* BAIRD, Mamm. N. Amer., p. 495.

1885. *Neotoma fuscipes* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 598. 1885. (Part.)

1894. *Neotoma monochroura* RHOADS, Amer. Nat., vol. 18, p. 67. January, 1894. (Grants Pass, Josephine County, Oregon.)

†1894. *Neotoma splendens* TRUE, Diagnoses of some undescribed wood rats (genus Neotoma) in the National Museum, p. 1. June 27, 1894. (Reprint: Proc. U. S. Nat. Mus., vol. 17, p. 353. November 15, 1894.) Marin County, California.

TYPE LOCALITY.—Petaluma, Sonoma County, California.

RANGE.—Pacific coast region from San Francisco Bay north to Salem, Oregon. Upper Sonoran and transition zones.

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†*Neotoma fuscipes streatori Merriam.

1894. *Neotoma fuscipes streatori* MERRIAM, Proc. Biol. Soc. Washington, vol. 9, p. 124. July 2, 1894.

TYPE LOCALITY.—Carbondale, Amador County, California.

RANGE.—West slope of the Sierra Nevada in California from Tehama County south to Porterville, Tulare County. Upper Sonoran zone.

*Neotoma fuscipes annectens Elliot.

1898. *Neotoma fuscipes annectens* ELLIOT, Field Columb. Mus., publ. 27, zool. ser., vol. 1, p. 201. March, 1898.

1898. *Neotoma fuscipes affinis* ELLIOT, Field Columb. Mus., publ. 27, zool. ser., vol. 1, p. 202. March, 1898. (Alum Rock Park, Santa Clara County, California.)

TYPE LOCALITY.—Portola, San Mateo County, California.

RANGE.—Coast region of California from San Francisco Bay to Monterey Bay and thence inland and southward along the small valleys and mountain ranges east of the Santa Lucia Mountains to Carriso Plains, San Luis Obispo County. Upper Sonoran and transition zones.

†*Neotoma fuscipes simplex (True).

1894. *Neotoma macrotis simplex* TRUE, Diagnoses of some undescribed wood rats (genus Neotoma) in the National Museum, p. 2. June 27, 1894. (Reprint: Proc. U. S. Nat. Mus., vol. 17, p. 354. November 15, 1894.)

†1894. *Neotoma fuscipes dispar* MERRIAM, Proc. Biol. Soc. Washington, vol. 9, p. 124. July 2, 1894. (Lone Pine, Inyo County, California.)

1910. *Neotoma fuscipes simplex* GOLDMAN, North Amer. Fauna, No. 31, p. 91. October 19, 1910.

TYPE LOCALITY.—Old Fort Tejon, in mountains south of Kern Lake, Kern County, California.

RANGE.—Eastern basal slopes of the Sierra Nevada in Inyo and Kern Counties, California, and through Walker Pass to the foothill region at the southern end of the San Joaquin Valley. Upper Sonoran zone.

*Neotoma fuscipes mohavensis Elliot.

1903. *Neotoma fuscipes mohavensis* ELLIOT, Field Columb. Mus., publ. 87, zool. ser., vol. 3, p. 246. December, 1903.

TYPE LOCALITY.—Oro Grande, Mohave Desert, San Bernardino County, California.

RANGE.—The Mohave Desert, in southern California. Lower Sonoran zone.

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***Neotoma fuscipes macrotis** (Thomas).

1893. *Neotoma macrotis* THOMAS, Ann. and Mag. Nat. Hist., ser. 6, vol. 12, p. 234. September, 1893.

1894. *Neotoma fuscipes macrotis* MERRIAM, Proc. Acad. Nat. Sci. Philadelphia, p. 246. September 25, 1894.

1904. *Neotoma fuscipes cnemophila* ELLIOT, Field Columb. Mus., publ. 90, zool. ser., vol. 3, p. 267. March, 1904. (Lockwood Valley, Mount Pinos, Ventura County, California.)

TYPE LOCALITY.—San Diego, San Diego County, California.

RANGE.—Pacific coast region from Monterey Bay, California, south through the San Pedro Martir Mountains, Lower California. Upper Sonoran and transition zones.

Subgenus TEONOMA Gray.

1843. *Teonoma* GRAY, List Spec. Mamm. Brit. Mus., p. 117. Type, *Myoxus drummondii* RICHARDSON.

***Neotoma cinerea cinerea** (Ord).

1815. *Mus cinereus* ORD, Guthrie's Geog., 2d Amer. ed., vol. 2, p. 292.

1857. *Neotoma cinerea* BAIRD, Mamm. N. Amer., p. 499.

1885. *Neotoma cinerea* TRUE, Proc. U. S. Nat. Mus., vol. 7, (1884), p. 598. 1885. (Part.)

1903. *Teonoma cinerea acraia* ELLIOT, Field Columb. Mus., publ. 87, zool. ser., vol. 3, p. 247. December, 1903. (Hot Springs, Long Canyon, Mount Whitney, Inyo County, California.)

TYPE LOCALITY.—Near Great Falls, Cascade County, Montana.

RANGE.—Rocky Mountain region in southern British Columbia, Montana, Idaho, western Wyoming, Utah, northern Arizona, and thence westward through the mountains of central Nevada to the southern part of the Sierra Nevada in California. Canadian zone and down along cold cliffs and canyons well into the transition zone.

***Neotoma cinerea drummondii** (Richardson).

1828. *Myoxus drummondii* RICHARDSON, Zool. Journ., vol. 3, p. 517.

1892. *Neotoma cinerea drummondi* MERRIAM, Proc. Biol. Soc. Washington, vol. 7, p. 25. April 13, 1892.

TYPE LOCALITY.—Probably near Jasper House, Alberta. (See Goldman, North Amer. Fauna, No. 31, p. 99, October 19, 1910.)

RANGE.—Rocky Mountains of eastern British Columbia and western Alberta, north of the range of true *N. cinerea*. Canadian zone.

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†*Neotoma cinerea saxamans (Osgood).

1900. *Neotoma saxamans* OSGOOD, North Amer. Fauna, No. 19, p. 33. October 6, 1900.

1903. *Neotoma cinerea saxamans* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 19, p. 544. October 10, 1903.

TYPE LOCALITY.—Bennett City, head of Lake Bennett, British Columbia, Canada.

RANGE.—Northern British Columbia west of the Rocky Mountains; limits of range unknown. Canadian and Hudsonian zones.

†*Neotoma cinerea occidentalis (Baird).

1855. *Neotoma occidentalis* BAIRD, Proc. Acad. Nat. Sci. Philadelphia, p. 335.

1891. *Neotoma cinera occidentalis* MERRIAM, North Amer. Fauna, No. 5, p. 58. July 30, 1891.

1899. *Neotoma c[inerea] columbiana* ELLIOT, Field Columb. Mus., publ. 32, zool. ser., vol. 1, p. 255. March, 1899. (Ducks, British Columbia.)

TYPE LOCALITY.—Shoalwater Bay, Pacific County, Washington.

RANGE.—From Pacific coast region of southwestern British Columbia to northern California (except the narrow coastal strip west of the Cascade Mountains in Oregon), and thence eastward over the lava beds to south-central Idaho and northeastern Nevada. Mainly transition and Canadian zones.

†*Neotoma cinerea fusca (True).

1894. *Neotoma occidentalis fusca* TRUE, Diagnoses of some undescribed wood rats (genus Neotoma) in the National Museum, p. 2. June 27, 1894. (Reprint: Proc. U. S. Nat. Mus., vol. 17, p. 354. November 15, 1894.)

1897. [*Neotoma*] *cinerea fusca* TROUESSART, Catal. Mamm. viv. foss., p. 544.

1903. *Neotoma fuscus apicalis* ELLIOT, Field Columb. Mus., publ. 74, zool. ser., vol. 3, p. 160. April, 1903. (Gardiner, Coos County, Oregon.)

TYPE LOCALITY.—Fort Umpqua, Douglas County, Oregon.

RANGE.—Humid coastal belt west of the Cascade Mountains in Oregon. Transition zone.

†*Neotoma cinerea orolestes (Merriam).

1894. *Neotoma orolestes* MERRIAM, Proc. Biol. Soc. Washington, vol. 9, p. 128. July 2, 1894.

1894. *Neotoma grangeri* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 6, p. 324. November 7, 1894. (Custer, Custer County, South Dakota.)

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***Neotoma cinerea orolestes**—Continued.

*1895. *Neotoma cinnamomea* ALLEN,[1] Bull. Amer. Mus. Nat. Hist., vol. 7, p. 331. November 8, 1895. (Kinney Ranch, Bitter Creek, Sweetwater County, Wyoming.)

1910. *Neotoma cinerea orolestes* GOLDMAN, North Amer. Fauna, No. 31, p. 104. October 19, 1910.

TYPE LOCALITY.—Saguache Valley, 20 miles west of Saguache, Saguache County, Colorado.

RANGE.—Rocky Mountain region from northern New Mexico north through Colorado and Wyoming to southern Montana and thence eastward to the Black Hills in South Dakota. Mainly transition and Canadian zones.

†*Neotoma cinerea arizonæ (Merriam).

1893. *Neotoma arizonæ* MERRIAM, Proc. Biol. Soc. Washington, vol. 8, p. 110. July 31, 1893.

1910. *Neotoma cinerea arizonæ* GOLDMAN, North Amer. Fauna, No. 31, p. 106. October 19, 1910.

TYPE LOCALITY.—Keam Canyon, Apache County, Arizona.

RANGE.—Upper Sonoran zone in northeastern Arizona, southeastern Utah, and probably northward along the Green River Valley, southwestern Colorado, and northwestern New Mexico.

***Neotoma cinerea rupicola** (Allen).

1894. *Neotoma rupicola* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 6, p. 323. November 7, 1894.

1910. *Neotoma cinerea rupicola* GOLDMAN, North Amer. Fauna, No. 31, p. 107. October 19, 1910.

TYPE LOCALITY.—Corral Draw, Pine River Indian Reservation southeastern base of Black Hills, South Dakota. Altitude, about 3,700 feet.

RANGE.—Big Bad Lands region from southwestern South Dakota, through southeastern Wyoming and western Nebraska to northeastern Colorado. Upper Sonoran zone.

Genus HODOMYS Merriam.

1894. *Hodomys* MERRIAM, Proc. Acad. Nat. Sci. Philadelphia, p. 232. September 24, 1894. Type, *Neotoma alleni* MERRIAM.

†*Hodomys alleni (Merriam).

1892. *Neotoma alleni* MERRIAM, Proc. Biol. Soc. Washington, vol. 7, p. 168. September 29, 1892.

1894. *Hodomys alleni* MERRIAM, Proc. Acad. Nat. Sci. Philadelphia, p. 235. September 24, 1894.

TYPE LOCALITY.—Manzanillo, State of Colima, Mexico.

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[1] Regarded by Warren (The Mammals of Colorado, p. 120, 1910) as a distinct species.

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†*Hodomys vetulus Merriam.

1894. *Hodomys vetulus* MERRIAM, Proc. Acad. Nat. Sci. Philadelphia, p. 236. September 24, 1894.

TYPE LOCALITY.—Tehuacan, State of Puebla, Mexico.

Genus XENOMYS Merriam.

1892. *Xenomys* MERRIAM, Proc. Biol. Soc. Washington, vol. 7, p. 160. September 29, 1892. Type, *Xenomys nelsoni* MERRIAM.

†*Xenomys nelsoni Merriam.

1892. *Xenomys nelsoni* MERRIAM, Proc. Biol. Soc. Washington, vol. 7, p. 161. September 29, 1892.

TYPE LOCALITY.—Hacienda Magdalena, between the city of Colima and Manzanillo, State of Colima, Mexico.

Subfamily MICROTINAE.[1]

Genus SYNAPTOMYS Baird.[2]

1857. *Synaptomys* BAIRD, Mamm. N. Amer., p. 558. Type, *Synaptomys cooperi* BAIRD.

Subgenus SYNAPTOMYS Baird.

†*Synaptomys cooperi Baird.

1857. *S[ynaptomys] cooperi* BAIRD, Mamm. N. Amer., p. 558.

1885. *Synaptomys cooperi* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 596. 1885.

1893. *Synaptomys stonei* RHOADS, Amer. Nat., vol. 27, p. 53. January, 1893. (Mays Landing, Atlantic County, New Jersey.)

TYPE LOCALITY.—Unknown, probably northern New Jersey.

*Synaptomys fatuus Bangs.

1896. *Synaptomys fatuus* BANGS, Proc. Biol. Soc. Washington, vol. 10, p. 47. March 9, 1896.

TYPE LOCALITY.—Lake Edward, Quebec, Canada.

Regarded by Rhoads (Proc. Acad. Nat. Sci. Philadelphia, 1897, p. 306, June, 1897) as a form of *S. cooperi*.

†*Synaptomys helaletes helaletes Merriam.

1896. *Synaptomys helaletes* MERRIAM, Proc. Biol. Soc. Washington, vol. 10, p. 59. March 19, 1896.

TYPE LOCALITY.—Dismal Swamp, Norfolk County, Virginia.

According to Rhoads (Proc. Acad. Nat. Sci. Philadelphia, 1897, p. 305, June, 1897), this should stand as *Synaptomys cooperi stonei* (RHOADS).

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[1] Genera and subgenera revised by Miller, North Amer. Fauna, No. 12, July 23, 1896.

[2] Revised by Merriam, Proc. Biol. Soc. Washington, vol. 10, pp. 55–64, March 19, 1896, but so many species have subsequently been described that the forms are here entered alphabetically.

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†*Synaptomys helaletes gossii (Coues).

1877. *Arvicola (Synaptomys) gossii* COUES, Monogr. N. Amer. Rodentia, p. 235 (Published as synonym of *Synaptomys cooperi*, but name stated to apply to Kansas specimens, description and measurements of which are printed on p. 236).

1896. *Synaptomys helaletes gossii* MERRIAM, Proc. Biol. Soc. Washington, vol. 10, p. 60. March 19, 1896.

TYPE LOCALITY.—Neosho Falls, Woodson County, Kansas.

According to Rhoads (Proc. Acad. Nat. Sci. Philadelphia, 1897, p. 307, June, 1897), this should stand as *Synaptomys cooperi gossi*.

Subgenus MICTOMYS True.

1894. *Mictomys* TRUE, Diagnoses of new North American Mammals, p. 2. April 26, 1894. (Reprint: Proc. U. S. Nat. Mus., vol. 17, p. 242. November 15, 1894.) Type, *Mictomys innuitus* TRUE.

Synaptomys andersoni Allen.

1903. *Synaptomys (Mictomys) andersoni* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 19, p. 554. October 10, 1903.

TYPE LOCALITY.—Level Mountain, northern British Columbia.

*Synaptomys borealis (Richardson).

1828. *Arvicola borealis* RICHARDSON, Zool. Journ., vol. 3, p. 517.

†1902. *Synaptomys (Mictomys) bullatus* PREBLE, Proc. Biol. Soc. Washington, vol. 15, p. 181. August 6, 1902. (Trout Rock, near Fort Rae, Great Slave Lake, Mackenzie, Canada.)

1907. *Synaptomys borealis* OSGOOD, Proc. Biol. Soc. Washington, vol. 20, p. 49. April 18, 1907.

TYPE LOCALITY.—Fort Franklin, Great Bear Lake, Mackenzie, Canada.

Synaptomys chapmani Allen.

1903. *Synaptomys (Mictomys) chapmani* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 19, p. 555. October 10, 1903.

TYPE LOCALITY.—Glacier, Selkirk Range, British Columbia.

†*Synaptomys dalli Merriam.

1896. *Synaptomys (Mictomys) dalli* MERRIAM, Proc. Biol. Soc. Washington, vol. 10, p. 62. March 19, 1896.

TYPE LOCALITY.—Nulato, Alaska.

†*Synaptomys innuitus innuitus (True).

1894. *Mictomys innuitus* TRUE, Diagnoses of new North American mammals, p. 3. April 26, 1894. (Reprint: Proc. U. S. Nat. Mus., vol. 17, p. 243. November 15, 1894.)

1896. *Synaptomys (Mictomys) innuitus* MERRIAM, Proc. Biol. Soc. Washington, vol. 10, p. 61. March 19, 1896.

TYPE LOCALITY.—Fort Chimo, Ungava, Canada.

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Synaptomys innuitus medioximus Bangs.

1900. *Synaptomys* (*Mictomys*) *innuitus medioximus* BANGS, Proc. New England Zool. Club, vol. 2, p. 40. September 20, 1900.

TYPE LOCALITY.—L'Anse au Loup, Strait of Belle Isle, Labrador.

†***Synaptomys sphagnicola** Preble.

1899. *Synaptomys* (*Mictomys*) *sphagnicola* PREBLE, Proc. Biol. Soc. Washington, vol. 13, p. 43. May 29, 1899.

TYPE LOCALITY.—Fabyans, Coos County, New Hampshire.

†***Synaptomys truei** Merriam.

1896. *Synaptomys* (*Mictomys*) *truei* MERRIAM, Proc. Biol. Soc. Washington, vol. 10, p. 62. March 19, 1896.

TYPE LOCALITY.—Skagit Valley, northwestern Washington.

†***Synaptomys wrangeli** Merriam.

1896. *Synaptomys* (*Mictomys*) *wrangeli* MERRIAM, Proc. Biol. Soc. Washington, vol. 10, p. 63. March 19, 1896.

TYPE LOCALITY.—Wrangel, Alaska.

Genus LEMMUS Link.

1795. *Lemmus* LINK, Beyträge zur Naturgesch., vol. 1, pt. 2, p. 75. Type, *Mus lemmus* LINNÆUS.

†***Lemmus alascensis** Merriam.

1885. *Myodes obensis* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 596. 1885. (Part.)

1900. *Lemmus alascensis* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 26. March 14, 1900.

TYPE LOCALITY.—Point Barrow, Alaska.

Lemmus helvolus (RICHARDSON). See page 400.

†***Lemmus minusculus** Osgood.

1904. *Lemmus minusculus* OSGOOD, North Amer. Fauna, No. 24, p. 36. November 23, 1904.

TYPE LOCALITY.—Kakhtul River, near its junction with the Malchatna River, Alaska.

†***Lemmus nigripes** (True).

1894. *Myodes nigripes* TRUE, Diagnoses of new North American mammals, p. 2. April 26, 1894. (Reprint, Proc. U. S. Nat. Mus., vol. 17, p. 242. November 15, 1894.)

1896. *L*[*emmus*] *nigripes* MILLER, North Amer. Fauna, No. 12, p. 37. July 23, 1896.

TYPE LOCALITY.—St. George Island, Pribilof Islands, Bering Sea.

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***Lemmus trimucronatus** (Richardson).

1825. *Arvicola trimucronata* RICHARDSON, Journ. Parry's Second voyage, app., p. 309.

1900. *Lemmus trimucronatus* STONE, Proc. Acad. Nat. Sci. Philadelphia, p. 35. March 24, 1900.

TYPE LOCALITY.—Point Lake, Mackenzie, Canada.

†*Lemmus yukonensis Merriam.

1900. *Lemmus yukonensis* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 27. March 14, 1900.

TYPE LOCALITY.—Charlie Creek, Yukon River, Alaska.

Genus DICROSTONYX Gloger.

1841. *Dicrostonyx* GLOGER, Gemeinn. Hand- u. Hilfsbuch d. Naturgesch., p. 97. Type, an American species, probably *Mus hudsonius* PALLAS.

***Dicrostonyx hudsonius hudsonius** (Pallas).

1778. *Mus hudsonius* PALLAS, Nov. Sp. Quadr. Glir. Ord., p. 208.

1897. *Dicrostonyx hudsonius* BANGS, Proc. Biol. Soc. Washington, vol. 11, p. 237. September 17, 1897.

TYPE LOCALITY.—Labrador.

***Dicrostonyx hudsonius alascensis** Stone.

1900. *Dicrostonyx hudsonius alascensis* STONE, Proc. Acad. Nat. Sci. Philadelphia, p. 37. March 24, 1900.

TYPE LOCALITY.—Point Barrow, Alaska.

***Dicrostonyx hudsonius grœnlandicus** (Traill).

1823. *Mus grœnlandicus* TRAILL, Scoresby's Journ. Voy. northern Whale-Fishery, p. 416.

1911. *Dicrostonyx hudsonius grœnlandicus* JACOBI, Abhandl. u. Berichte k. Zool. u. Anthrop.-Ethnol. Mus. Dresden, vol. 13, 1908, No. 4, p. 9. 1911.

TYPE LOCALITY.—Jameson's Land, Greenland.

†*Dicrostonyx nelsoni Merriam.

1885. *Cuniculus torquatus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 596. 1885. (Part.)

1900. *Dicrostonyx nelsoni* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 25. March 14, 1900.

TYPE LOCALITY.—St. Michael, Alaska.

†*Dicrostonyx richardsoni Merriam.

1900. *Dicrostonyx richardsoni* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 26. March 14, 1900.

TYPE LOCALITY.—Fort Churchill, west shore of Hudson Bay, Keewatin, Canada.

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†*Dicrostonyx unalascensis Merriam.

1900. *Dicrostonyx unalascensis* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 25. March 14, 1900.

TYPE LOCALITY.—Unalaska, Alaska.

Genus PHENACOMYS Merriam.[1]

1889. *Phenacomys* MERRIAM, North Amer. Fauna, No. 2, p. 28. October 30, 1889. Type, *Phenacomys intermedius* MERRIAM.

*Phenacomys intermedius Merriam.

1889. *Phenacomys intermedius* MERRIAM, North Amer. Fauna, No. 2, p. 32. October 30, 1889.

TYPE LOCALITY.—Basaltic plateau about 20 miles north northwest of Kamloops, British Columbia, Canada. Altitude, 5,500 feet.

†*Phenacomys orophilus Merriam.

1891. *Phenacomys orophilus* MERRIAM, North Amer. Fauna, No. 5, p. 65. July 30, 1891.

†1894. *Phenacomys truei* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 6, p. 331. November 7, 1894. (Black Hills, now Laramie Mountains, Wyoming.)

TYPE LOCALITY.—Salmon River Mountains, Idaho (near head of Timber Creek). Altitude, 10,500 feet.

*Phenacomys olympicus Elliot.

1899. *Phenacomys olympicus* ELLIOT, Field Columb. Mus., publ. 30, zool. ser., vol. 1, p. 225. February 1, 1899.

(See note, page 400.)

TYPE LOCALITY.—Happy Lake, Olympic Mountains, Clallam County, Washington. Altitude, 5,000 feet.

†*Phenacomys preblei Merriam.

1897. *Phenacomys preblei* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 45. March 16, 1897.

TYPE LOCALITY.—Twin Peak, near Long's Peak, Boulder County, Colorado. Altitude, 9,000 feet.

Phenacomys constablei Allen.

1899. *Phenacomys constablei* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 12, p. 4. March 4, 1899.

TYPE LOCALITY.—Telegraph Creek, British Columbia, Canada.

†*Phenacomys latimanus Merriam.

1889. *Phenacomys latimanus* MERRIAM, North Amer. Fauna, No. 2, p. 34. October 30, 1889.

TYPE LOCALITY.—Fort Chimo, Ungava, Canada.

[1] Revised by Miller, Proc. Biol. Soc. Washington, vol. 11, pp. 77-87, April 21, 1897, but this paper can no longer be regarded as authoritative.

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†*Phenacomys ungava ungava Merriam.

†1889. *Phenacomys celatus* MERRIAM, North Amer. Fauna, No. 2, p. 33. October 30, 1889 (Godbout, Quebec, Canada).

1889. *Phenacomys ungava* MERRIAM, North Amer. Fauna, No. 2, p. 35. October 30, 1889. Name selected by Miller, Proc. Biol. Soc. Washington, vol. 11, p. 84, April 21, 1897.

TYPE LOCALITY.—Fort Chimo, Ungava, Canada.

Phenacomys ungava crassus (Bangs).

1900. *Phenacomys celatus crassus* BANGS, Proc. New England Zool. Club, vol. 2, p. 39. September 20, 1900.

TYPE LOCALITY.—Rigolet, Hamilton Inlet, Labrador.

†*Phenacomys mackenzii Preble.

1902. *Phenacomys mackenzii* PREBLE, Proc. Biol. Soc. Washington, vol. 15, p. 182. August 6, 1902.

TYPE LOCALITY.—Fort Smith, Slave River, near the Alberta Mackenzie boundary line, Canada.

†*Phenacomys albipes Merriam.

1901. *Phenacomys albipes* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 125. July 19, 1901.

TYPE LOCALITY.—Redwoods, near Arcata, Humboldt Bay, Humboldt County, California.

†*Phenacomys longicaudus True.

1890. *Phenacomys longicaudus* TRUE, Proc. U. S. Nat. Mus., vol. 13, p. 303. November 15, 1890.

TYPE LOCALITY.—Marshfield, Coos County, Oregon.

Genus EVOTOMYS Coues.[1]

1874. *Evotomys* COUES, Proc. Acad. Nat. Sci. Philadelphia, p. 186. December 15, 1874. Type, *Mus rutilus* PALLAS.

†*Evotomys caurinus Bailey.

1898. *Evotomys caurinus* BAILEY, Proc. Biol. Soc. Washington, vol. 12, p. 21. January 27, 1898.

TYPE LOCALITY.—Lund, east shore of Malaspina Inlet, British Columbia, Canada.

†*Evotomys wrangeli Bailey.

1897. *Evotomys wrangeli* BAILEY, Proc. Biol. Soc. Washington, vol. 11, p. 120. May 13, 1897.

TYPE LOCALITY.—Wrangel, Wrangel Island, Alaska.

RANGE.—Known only from Wrangel and Revillagigedo Islands, southern Alaska.

[1] Revised by Bailey, Proc. Biol. Soc. Washington, vol. 11, pp. 113-138, May 13, 1897.

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***Evotomys phæus** Swarth.

1911. *Evotomys phæus* SWARTH, Univ. Calif. Publ. Zool., vol. 7, p. 127. January 12, 1911.

TYPE LOCALITY.—Marten Arm, Boca de Quadra, Alaska.

†*Evotomys dawsoni dawsoni Merriam.

1888. *Evotomys dawsoni* MERRIAM, Amer. Nat., vol. 22, p. 650. July, 1888.

†1898. *Evotomys alascensis* MILLER, Proc. Acad. Nat. Sci. Philadelphia, p. 364. October 15, 1898. (St. Michael, Norton Sound, Alaska). See Osgood, North Amer. Fauna, No. 24, p. 34, November 23, 1904.

TYPE LOCALITY.—Finlayson River, a northern source of the Liard River, lat. 61° 30′ N.; long. 129° 30′ W., Yukon, Canada. Altitude, 3,000 feet.

RANGE.—From Finlayson River and Fort Liard west to Yakutat and Juneau, and north along the coast to Prince William Sound.

Evotomys dawsoni insularis Heller.

1910. *Evotomys dawsoni insularis* HELLER, Univ. Calif. Publ. Zool., vol. 5, p. 339. March 5, 1910.

TYPE LOCALITY.—Canoe Passage, Hawkins Island, Prince William Sound, Alaska.

†*Evotomys orca Merriam.

1900. *Evotomys orca* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 24. March 14, 1900.

TYPE LOCALITY.—Orca, Prince William Sound, Alaska.

***Evotomys gapperi gapperi** (Vigors).

1830. *Arvicola gapperi* VIGORS, Zool. Journ., vol. 5, p. 204.

1885. *Evotomys rutilus gapperi* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 596. 1885. (Part.)

1891. *E[votomys] gapperi* MERRIAM, North Amer. Fauna, No. 5, p. 119. July 30, 1891.

1894. *Evotomys fuscodorsalis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 6, p. 103. April 14, 1894. (Trousers Lake, New Brunswick.)

TYPE LOCALITY.—Vicinity of Lake Simcoe, Ontario, Canada.

RANGE.—From Massachusetts, New Jersey, and Pennsylvania northward and from the Atlantic coast westward to the Rocky Mountains in Canada.

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***Evotomys gapperi ochraceus** Miller.

1894. *Evotomys gapperi ochraceus* MILLER, Proc. Boston Soc. Nat. Hist., vol. 26, p. 193. March 24, 1894.

TYPE LOCALITY.—Mount Washington, Coos County, New Hampshire. Altitude, 5,500 feet.

RANGE.—The White Mountains of New Hampshire, and (probably eastward to) Nova Scotia.

***Evotomys gapperi rhoadsi** Stone.

1893. *Evotomys gapperi rhoadsi* STONE, Amer. Nat., vol. 27, p. 55. January, 1893.

TYPE LOCALITY.—May's Landing, Atlantic County, New Jersey.

Regarded by Miller (Bull. N. Y. State Mus., vol. 8, p. 111, November 21, 1900) as a distinct species.

†*Evotomys gapperi loringi Bailey.

1897. *Evotomys gapperi loringi* BAILEY, Proc. Biol. Soc. Washington, vol. 11, p. 125. May 13, 1897.

TYPE LOCALITY.—Portland, Traill County, North Dakota.

RANGE.—Timbered valleys along edge of plains in Minnesota and eastern North and South Dakota.

†*Evotomys gapperi athabascæ Preble.

1908. *Evotomys gapperi athabascæ* PREBLE, North Amer. Fauna, No. 27, p. 178. October 26, 1908.

TYPE LOCALITY.—Fort Smith, Slave River, near Alberta-Mackenzie line, Canada.

†*Evotomys gapperi galei (Merriam).

1890. *Evotomys galei* MERRIAM, North Amer. Fauna, No. 4, p. 23. October 8, 1890.

1897. *Evotomys gapperi galei* BAILEY, Proc. Biol. Soc. Washington, vol. 11, p. 126. May 13, 1897.

TYPE LOCALITY.—Ward, Boulder County, Colorado. Altitude, 9,500 feet.

RANGE.—Boreal zone of mountains of Colorado and northward along eastern ranges of Rocky Mountains to northern Montana.

***Evotomys gapperi saturatus** Rhoads.

1894. *Evotomys gapperi saturatus* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, p. 284. October 23, 1894.

TYPE LOCALITY.—Nelson, British Columbia, Canada, on the Kootenay River, 30 miles north of the northern boundary of Washington.

RANGE.—The Blue Mountains of Oregon, mountains of northern Idaho, and northward into British Columbia to Cariboo Lake [near Kamloops].

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†*Evotomys brevicaudus (Merriam).

1891. *Evotomys gapperi brevicaudus* MERRIAM, North Amer. Fauna, No. 5, p. 119. July 30, 1891.

1897. *Evotomys brevicaudus* BAILEY, Proc. Biol. Soc. Washington, vol. 11, p. 129. May 13, 1897.

TYPE LOCALITY.—Three miles north of Custer, Black Hills, Custer County, South Dakota. Altitude, about 6,000 feet.

RANGE.—Boreal cap of Black Hills in South Dakota.

†*Evotomys carolinensis Merriam.

1888. *Evotomys carolinensis* MERRIAM, Amer. journ. Sci., ser. 3, vol. 36, p. 460. December, 1888.

TYPE LOCALITY.—Roan Mountain, Mitchell County, North Carolina. Altitude, 6,000 feet.

RANGE.—Boreal parts of Allegheny Mountains of North Carolina, Tennessee, and West Virginia [also Virginia and Maryland].

†*Evotomys ungava Bailey.

1897. *Evotomys ungava* BAILEY, Proc. Biol. Soc. Washington, vol. 11, p. 130. May 13, 1897.

TYPE LOCALITY.—Fort Chimo, Ungava, Canada.

†*Evotomys idahoensis Merriam.

1891. *Evotomys idahoensis* MERRIAM, North Amer. Fauna, No. 5, p. 66. July 30, 1891.

TYPE LOCALITY.—Sawtooth (or Alturas) Lake, east base of Sawtooth Mountains, Idaho. Altitude, 7,200 feet.

RANGE.—Mountains of south central Idaho, between Snake River and the Salmon.

†*Evotomys mazama Merriam.

1897. *Evotomys mazama* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 71. April 21, 1897.

TYPE LOCALITY.—Crater Lake, Mount Mazama, Klamath County, Oregon. Altitude, 7,000 feet.

RANGE.—Crest of the Cascade Mountains in Oregon.

†*Evotomys obscurus Merriam.

1897. *Evotomys obscurus* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 72. April 21, 1897.

TYPE LOCALITY.—Prospect, Upper Rogue River Valley, Jackson County, Oregon. Altitude, about 2,600 feet.

RANGE.—West slope of the southern Cascade Range and northern Sierra Nevada in southern Oregon and northern California.

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†*Evotomys californicus Merriam.

1890. *Evotomys californicus* Merriam, North Amer. Fauna, No. 4, p. 26. October 8, 1890.

Type Locality.—Eureka, Humboldt County, California.

Range.—Coast strip of Oregon and northern California.

†*Evotomys occidentalis Merriam.

1890. *Evotomys occidentalis* Merriam, North Amer. Fauna, No. 4, p. 25. October 8, 1890.

1894. *Evotomys pygmæus* Rhoads, Proc. Acad. Nat. Sci. Philadelphia, p. 284. October 23, 1894. (Mouth of the Nisqually River, Pierce County, Washington.)

Type Locality.—Aberdeen, Chehalis County, Washington.

Range.—Coast and Puget Sound region of Washington and southern British Columbia.

†*Evotomys nivarius Bailey.

1897. *Evotomys nivarius* Bailey, Proc. Biol. Soc. Washington, vol. 11, p. 136. May 13, 1897.

Type Locality.—Northwest slope of Mount Ellinor, Olympic Mountains, Washington. Altitude, 4,000 feet.

Range.—Mount Ellinor and probably other high peaks in the Olympic Mountains.

Evotomys proteus Bangs.

1897. *Evotomys proteus* Bangs, Proc. Biol. Soc. Washington, vol. 11, p. 137. May 13, 1897.

Type Locality.—Hamilton Inlet, Labrador.

Genus MICROTUS [1] Schrank.

1798. *Microtus* Schrank, Fauna Boica, vol. 1, Abth. 1, p. 72. Type, *Microtus terrestris* Schrank = *Mus arvalis* Pallas.

Subgenus Microtus Schrank.

1894. *Tetramerodon* Rhoads, Proc. Acad. Nat. Sci. Philadelphia, p. 282. October 23, 1894. Type, *Arvicola tetramerus* Rhoads.

*Microtus pennsylvanicus pennsylvanicus (Ord).

1815. *Mus pennsylvanica* Ord, Guthrie's Geography, 2d Amer. ed., vol. 2, p. 292.

1885. *Arvicola riparius riparius* True, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 597. 1885. (Part.)

1895. *M[icrotus] pennsylvanicus* Rhoads, Amer. Nat., vol. 29, p. 940. October, 1895.

Type Locality.—Meadows below Philadelphia, Pennsylvania.

[1] Revised by Bailey, North Amer. Fauna, No. 17, June 6, 1900.

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Microtus pennsylvanicus pennsylvanicus—Continued.

RANGE.—Eastern United States and westward as far as Dakota and Nebraska, shading into *M. modestus* of the western plains and Rocky Mountains. In a general way it occupies the transition zone from the Atlantic coast to the edge of the Great Plains.

***Microtus pennsylvanicus nigrans** Rhoads.

1897. *Microtus pennsylvanicus nigrans* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, p. 307. June 18, 1897.

TYPE LOCALITY.—Currituck, Currituck County, North Carolina.

RANGE.—Coast region of northern North Carolina and southern Virginia, in the austroriparian zone.

***Microtus pennsylvanicus acadicus** Bangs.

1897. *Microtus pennsylvanicus acadicus* BANGS, Amer. Nat., vol. 31, p. 239. March, 1897.

TYPE LOCALITY.—Digby, Nova Scotia.

RANGE.—Nova Scotia and Prince Edward Island.

***Microtus pennsylvanicus shattucki** Howe.

1901. *Microtus pennsylvanicus shattucki* HOWE, Proc. Portland Soc. Nat. Hist., vol. 2, p. 201. December 31, 1901.

TYPE LOCALITY.—Tumble Down Dick Island, near Long Island, Penobscot Bay, Maine.

†***Microtus pennsylvanicus modestus** (Baird).

1857. *Arvicola modesta* BAIRD, Mamm. N. Amer., p. 535.

1894. *Arvicola insperatus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 6, p. 347. December 7, 1894. (Custer, Black Hills, Custer County, South Dakota.)

1900. *Microtus pennsylvanicus modestus* BAILEY, North Amer. Fauna, No. 17, p. 20. June 6, 1900.

TYPE LOCALITY.—Cochetopa ("Sawatch") Pass, Saguache County, Colorado.

RANGE.—Rocky Mountains and western plains from New Mexico to British Columbia, and from the Black Hills of South Dakota to central Idaho, and beyond, with slight variation, to the plains of the Columbia, mainly in transition zone.

***Microtus pennsylvanicus fontigenus** (Bangs).

1896. *Microtus fontigenus* BANGS, Proc. Biol. Soc. Washington, vol. 10, p. 48. March 9, 1896.

1897. *Microtus pennsylvanicus fontigenus* MILLER, Proc. Boston Soc. Nat. Hist., vol. 28, p. 14. April 30, 1897.

TYPE LOCALITY.—Lake Edward, Quebec, Canada.

RANGE.—Eastern Canada, in the Hudsonian zone.

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†*Microtus pennsylvanicus labradorius Bailey.

1898. *Microtus pennsylvanicus labradorius* Bailey, Proc. Biol. Soc. Washington, vol. 12, p. 88. April 30, 1898.

Type Locality.—Fort Chimo, Ungava, Canada.

Range.—Known only from the type locality.

Microtus provectus Bangs.

1908. *Microtus provectus* Bangs, Proc. New England Zool. Club, vol. 4, p. 20. March 6, 1908.

Type Locality.—Block Island, Rhode Island.

*Microtus drummondii (Audubon and Bachman).

1854. *Arvicola drummondii* Audubon and Bachman, Quadr. N. Amer., vol. 3, p. 166.

1894. *Arvicola* (*Mynomes*) *microcephalus* Rhoads, Proc. Acad. Nat. Sci., Philadelphia, p. 286. October 23, 1894. (Lac La Hache, British Columbia, Canada.)

1897. [*Microtus*] *drummondi* Trouessart, Catal. Mamm. viv. foss., p. 563.

1899. *Microtus stonei* Allen, Bull. Amer. Mus. Nat. Hist., vol. 12, p. 5. March 4, 1899. (Liard River, British Columbia, Canada.)

Type Locality.—"Valleys of the Rocky Mountains;" probably in the vicinity of Jasper House, Alberta, Canada.

Range.—From Hudson Bay to the west slope of the Rocky Mountains and Alaska, and from the northern edge of the United States, north to Fort Anderson, Mackenzie, in Canadian and Hudsonian zones.

*Microtus admiraltiæ Heller.

1909. *Microtus admiraltiæ* Heller, Univ. Calif. Publ. Zool., vol. 5, p. 256. February 18, 1909.

Type Locality.—Windfall Harbor, Admiralty Island, Alaska.

†*Microtus aphorodemus Preble.

1902. *Microtus aphorodemus* Preble, North Amer. Fauna, No. 22, p. 52. October 31, 1902.

Type Locality.—Barren grounds about 50 miles south of Cape Eskimo, near mouth of Thlewiaza River, Keewatin, Canada.

*Microtus aztecus (Allen).

1893. *Arvicola* (*Mynomes*) *aztecus* Allen, Bull. Amer. Mus. Nat. Hist., vol. 5, p. 73. April 28, 1893.

1897. [*Microtus*] *aztecus* Trouessart, Catal. Mamm. viv. foss., p. 562.

Type Locality.—Aztec, San Juan County, New Mexico. Altitude, 5,900 feet.

Range.—Valley of the San Juan River in northwest New Mexico, in transition zone.

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***Microtus enixus** Bangs.

1896. *Microtus enixus* BANGS, Amer. Nat., vol. 30, p. 1051. December 5, 1896.

TYPE LOCALITY.—Hamilton Inlet, Labrador.

RANGE.—Eastern coast of Labrador from Hamilton Inlet to Ungava Bay, in Hudsonian zone.

***Microtus terrænovæ** (Bangs).

1894. *Arvicola terrænovæ* BANGS, Proc. Biol. Soc. Washington, vol. 9, p. 129. July 27, 1894.

1896. *M[icrotus] terrænovæ* MILLER, North Amer. Fauna, No. 12, p. 66. July 23, 1896.

TYPE LOCALITY.—Codroy, Newfoundland.

RANGE.—Newfoundland and Penguin Island.

†*Microtus breweri (Baird).

1857. *Arvicola breweri* BAIRD, Mamm. N. Amer., p. 525.

1896. *Microtus breweri* MILLER, Proc. Boston Soc. Nat. Hist., vol. 27, p. 83. June, 1896.

TYPE LOCALITY.—Muskeget Island, off Nantucket, Massachusetts.

RANGE.—Muskeget Island.

†*Microtus nesophilus Bailey.

1898. *Microtus insularis* BAILEY, Proc. Biol. Soc. Washington, vol. 12, p. 86. April 30, 1898. (Not of Nilsson, 1844.)

1898. *Microtus nesophilus* BAILEY, Science, n. s., vol. 8, p. 783. December 2, 1898. (Substitute for *insularis* Bailey.)

TYPE LOCALITY.—Great Gull Island, off eastern extremity of Long Island, Suffolk County, New York.

RANGE.—Great Gull Island, at entrance to Long Island Sound.

***Microtus montanus montanus** (Peale).

1848. *Arvicola montana* PEALE, U. S. Explor. Exp., vol. 8, mamm. and ornith., p. 44.

1897. [*Microtus*] *montanus* TROUESSART, Catal. Mamm. viv. foss., p. 563.

TYPE LOCALITY.—Headwaters of the Sacramento River, near Mount Shasta, Siskiyou County, California.

RANGE.—Northeastern California, eastern Oregon, northern Utah and Nevada, in the upper Sonoran and transition zones.

†*Microtus montanus arizonensis Bailey.

1898. *Microtus montanus arizonensis* BAILEY, Proc. Biol. Soc. Washington, vol. 12, p. 88. April 30, 1898.

TYPE LOCALITY.—Springerville, Apache County, Arizona.

RANGE.—Plateau country of eastern Arizona, at head of Little Colorado, in the transition zone.

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†*Microtus montanus rivularis (Bailey).

1898. *Microtus nevadensis rivularis* BAILEY, Proc. Biol. Soc. Washington, vol. 12, p. 87. April 30, 1898.

1900. *Microtus montanus rivularis* BAILEY, North Amer. Fauna, No. 17, p. 29. June 6, 1900.

TYPE LOCALITY.—St. George, Washington County, Utah.

RANGE.—Known only from type locality; probably restricted to lower Sonoran zone.

†*Microtus nanus nanus (Merriam).

1891. *Arvicola (Mynomes) nanus* MERRIAM, North Amer. Fauna, No. 5, p. 63. July 30, 1891.

1897. *Microtus nanus* MILLER, Proc. Biol. Soc. Washington, vol. 11, p. 67. April 21, 1897.

TYPE LOCALITY.—Pahsimeroi Mountains, Idaho. Altitude, 9,350 feet.

RANGE.—Rocky Mountains and outlying ranges, from central Idaho southward to central Nevada and southern Colorado, in Canadian zone.

†*Microtus nanus canescens Bailey.

1898. *Microtus nanus canescens* BAILEY, Proc. Biol. Soc. Washington, vol. 12, p. 87. April 30, 1898.

TYPE LOCALITY.—Conconully, Okanogan County, Washington.

RANGE.—Northern Washington and southern British Columbia, east of the Cascades. Apparently confined to the transition zone.

†*Microtus canicaudus Miller.

1897. *Microtus canicaudus* MILLER, Proc. Biol. Soc. Washington, vol. 11, p. 67. April 21, 1897.

TYPE LOCALITY.—McCoy, Willamette Valley, Polk County, Oregon.

RANGE.—Willamette Valley, Oregon, and the east base of the Cascades in southern Washington, in transition zone.

†*Microtus dutcheri Bailey.

1898. *Microtus dutcheri* BAILEY, Proc. Biol. Soc. Washington, vol. 12, p. 85. April 30, 1898.

TYPE LOCALITY.—Big Cottonwood Meadows, near Mount Whitney, Tulare County, California. Altitude, 10,000 feet.

RANGE.—Hudsonion zone of the southern Sierra Nevada.

†*Microtus nevadensis Bailey.

1898. *Microtus nevadensis* BAILEY, Proc. Biol. Soc. Washington, vol. 12, p. 86. April 30, 1898.

TYPE LOCALITY.—Ash Meadows, Nye County, Nevada.

RANGE.—Known only from the type locality and Pahranagat Valley, about 100 miles to the northeast. Both localities are in the lower Sonoran zone.

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†*Microtus californicus californicus (Peale).

1848. *Arvicola californica* PEALE, U. S. Explor. Exp., vol. 8, mamm. and ornith., p. 46.

1897. [*Microtus*] *californicus* TROUESSART, Catal. Mamm. viv. foss., p. 563.

TYPE LOCALITY.—Vicinity of San Francisco Bay, California.

RANGE.—California, west of the Colorado Desert and the Sierra Nevada, and from Santa Ysabel, San Diego County, California, north to the Rogue River and Umpqua Valleys, Oregon.

†*Microtus californicus vallicola Bailey.

1898. *Microtus californicus vallicola* BAILEY, Proc. Biol. Soc. Washington, vol. 12, p. 89. April 30, 1898.

TYPE LOCALITY.—Lone Pine, Inyo County, California.

RANGE.—Valleys east of the Sierra Nevada, California. Confined mainly to upper Sonoran zone.

†*Microtus californicus constrictus Bailey.

1900. *Microtus californicus constrictus* BAILEY, North Amer. Fauna, No. 17, p. 36. June 6, 1900.

TYPE.—Cape Mendocino, Humboldt County, California.

RANGE.—Coast region near Cape Mendocino.

*Microtus californicus huperuthrus Elliot.

1903. *Microtus californicus huperuthrus* ELLIOT, Field Columb. Mus., publ. 74, zool. ser., vol. 3, p. 161. April, 1903.

TYPE LOCALITY.—San Quentin, Lower California, Mexico.

†*Microtus edax (LeConte).

1853. *Arvicola edax* LECONTE, Proc. Acad. Nat. Sci. Philadelphia, vol. 6, p. 405.

1896. *Microtus edax* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 8, p. 268. December 4, 1896.

TYPE LOCALITY.—California, south of San Francisco.

RANGE.—Bottom of the San Joaquin and Sacramento Valleys, in lower austral zone.

†*Microtus scirpensis Bailey.

1900. *Microtus scirpensis* BAILEY, North Amer. Fauna, No. 17, p. 38. June 6, 1900.

TYPE LOCALITY.—Amargosa River, near Nevada line, Inyo County, California.

RANGE.—Known only from the type locality.

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†*Microtus operarius operarius (Nelson).

1893. *Arvicola operarius* NELSON, Proc. Biol. Soc. Washington, vol. 8, p. 139. December 28, 1893.

1897. [*Microtus*] *operarius* TROUESSART, Catal. Mamm. viv. foss., p. 564.

TYPE LOCALITY.—St. Michael, Norton Sound, Alaska.

RANGE.—Barren grounds about Bristol Bay, St. Michael, and Kowak River, Alaska.

†*Microtus operarius endœcus Osgood.

1909. *Microtus operarius endœcus* OSGOOD, North Amer. Fauna, No. 30, p. 23. October 7, 1909.

TYPE LOCALITY.—Mouth of Charlie Creek, Yukon River, about 50 miles above Circle, Alaska.

†*Microtus macfarlani Merriam.

1900. *Microtus macfarlani* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 24. March 14, 1900.

TYPE LOCALITY.—Fort Anderson, Anderson River, Mackenzie, Canada.

RANGE.—Tundra region of Arctic America, east of the Mackenzie River.

†*Microtus yakutatensis Merriam.

1900. *Microtus yakutatensis* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 22. March 14, 1900.

TYPE LOCALITY.—North shore of Yakutat Bay, Alaska.

RANGE.—Mainland of Alaska from Glacier Bay to Prince William Sound.

†*Microtus kadiacensis Merriam.

1897. *Microtus kadiacensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 222. July 15, 1897.

TYPE LOCALITY.—Kodiak Island, Alaska.

RANGE.—Known only from the type locality.

†*Microtus unalascensis unalascensis Merriam.

1897. *Microtus unalascensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 222. July 15, 1897.

TYPE LOCALITY.—Unalaska, Alaska.

RANGE.—Island of Unalaska.

†*Microtus unalascensis popofensis Merriam.

1900. *Microtus unalascensis popofensis* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 22. March 14, 1900.

TYPE LOCALITY.—Popof Island, Shumagin Islands, Alaska.

RANGE.—Known only from Popof Island.

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†*Microtus sitkensis Merriam.

1897. *Microtus sitkensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 221. July 15, 1897.

TYPE LOCALITY.—Sitka, Alaska.

RANGE.—Known only from Baranof Island, Alaska.

†*Microtus innuitus Merriam.

1900. *Microtus innuitus* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 21. March 14, 1900.

TYPE LOCALITY.—St. Lawrence Island, Bering Sea, Alaska.

RANGE.—Known only from St. Lawrence Island.

†*Microtus elymocetes Osgood.

1906. *Microtus elymocetes* OSGOOD, Proc. Biol. Soc. Washington, vol. 19, p. 71. May 1, 1906.

TYPE LOCALITY.—East side of Montague Island, Prince William Sound, Alaska.

†*Microtus abbreviatus abbreviatus Miller.

1899. *Microtus abbreviatus* MILLER, Proc. Biol. Soc. Washington, vol. 13, p. 13. January 31, 1899.

TYPE LOCALITY.—Hall Island, Bering Sea, Alaska.

RANGE.—Known only from Hall Island.

†*Microtus abbreviatus fisheri Merriam.

1900. *Microtus abbreviatus fisheri* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 23. March 14, 1900.

TYPE LOCALITY.—St. Matthew Island, Bering Sea, Alaska.

RANGE.—Known only from St. Matthew Island.

†*Microtus miurus miurus Osgood.

1901. *Microtus miurus* OSGOOD, North Amer. Fauna, No. 21, p. 64. September 26, 1901.

TYPE LOCALITY.—Head of Bear Creek, in mountains near Hope City, Turnagain Arm, Cook Inlet, Alaska.

†*Microtus miurus oreas Osgood.

1907. *Microtus miurus oreas* OSGOOD, Proc. Biol. Soc. Washington, vol. 20, p. 61. April 18, 1907.

TYPE LOCALITY.—Toklat River, Alaskan Range, Alaska.

*Microtus townsendii (Bachman).

1839. *Arvicola townsendii* BACHMAN, Journ. Acad. Nat. Sci. Philadelphia, vol. 8, pt. 1, p. 60.

1885. *Arvicola townsendi* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 597. 1885. (Part.)

1896. *M[icrotus] townsendi* MILLER, North Amer. Fauna, No. 12, p. 66. July 22, 1896.

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Microtus townsendii—Continued.

TYPE LOCALITY.—Columbia River; according to Bailey (North Amer. Fauna, No. 17, p. 46, June 6, 1900), near mouth of Willamette, on or near Wappatoo (or Sauvie) Island.

RANGE.—Low country west of the Cascades, from Port Moody, British Columbia, south to the Willamette Valley and to Yaquina Bay, Oregon, in transition zone.

***Microtus tetramerus** (Rhoads).

1894. *Arvicola* (*Tetramerodon*) *tetramerus* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, p. 283. October 23, 1894.

1900. *Microtus tetramerus* BAILEY, North Amer. Fauna, No. 17, p. 47. June 6, 1900.

TYPE LOCALITY.—Beacon Hill Park, Victoria, Vancouver Island, British Columbia, Canada.

RANGE.—Southern end of Vancouver Island.

†***Microtus longicaudus** (Merriam).

1888. *Arvicola* (*Mynomes*) *longicaudus* MERRIAM, Amer. Nat. vol. 22, p. 934. October, 1888.

1895. *Microtus* (*Mynomes*) *longicaudus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 266. August 21, 1895.

TYPE LOCALITY.—Custer, Black Hills, Custer County, South Dakota. Altitude, 5,500 feet.

RANGE.—Boreal cap of the Black Hills and down some of the cold streams well into the transition zone.

†***Microtus mordax mordax** (Merriam).

1891. *Arvicola* (*Myomes*) *mordax* MERRIAM, North Amer. Fauna, No. 5, p. 61. July 30, 1891.

1897. [*Microtus*] *mordax* TROUESSART, Catal. Mamm. viv. foss., p. 564.

1899. *Microtus vellerosus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 12, p. 7. March 4, 1899. (Upper Liard River, British Columbia.)

1899. *Microtus cautus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 12, p. 7. March 4, 1899. (Hells Gate, Liard River, British Columbia.)

TYPE LOCALITY.—Sawtooth (or Alturas) Lake, east base of Sawtooth Mountains, Idaho. Altitude, 7,200 feet.

RANGE.—Rocky Mountains and outlying ranges from latitude 60° to northern New Mexico, and south in the Cascades and Sierra Nevada as far as Kaweah and Kern Rivers, California. In the Cascades mainly confined to the east slope, but extending west to the Siskiyous, in southern Oregon, and Salmon and Trinity Mountains in northern California. Found in most of the isolated ranges of eastern Oregon and northern and central Nevada. Common in Canadian and Hudsonian zones.

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†*Microtus mordax bernardinus Merriam.

1908. *Microtus mordax bernardinus* MERRIAM, Proc. Biol. Soc. Washington, vol. 21, p. 145. June 9, 1908.

TYPE LOCALITY.—Dry Lake, San Bernardino Mountains, California. Altitude, 9,000 feet.

†*Microtus macrurus Merriam.

1898. *Microtus macrurus* MERRIAM, Proc. Acad. Nat. Sci. Philadelphia, p. 353. October 4, 1898.

TYPE LOCALITY.—Lake Cushman, Olympic Mountains, Washington.

RANGE.—The typical form: Olympic Mountains. With slight variation along the coast strip of British Columbia and Alaska north to Yakutat.

Microtus coronarius Swarth.

1911. *Microtus coronarius* SWARTH, Univ. Calif. Publ. Zool., vol. 7, p. 131. January 12, 1911.

TYPE LOCALITY.—Egg Harbor, Coronation Island, Alaska.

†*Microtus angusticeps Bailey.

1898. *Microtus angusticeps* BAILEY, Proc. Biol. Soc. Washington, vol. 12, p. 86. April 30, 1898.

TYPE LOCALITY.—Crescent City, Del Norte County, California.

RANGE.—Coast region or northwestern California and southwestern Oregon.

†*Microtus alticola alticola (Merriam).

1890. *Arvicola* (*Mynomes*) *alticolus* MERRIAM, North. Amer. Fauna No. 3, p. 67. September 11, 1890.

1895. *Microtus alticolus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 219. June 29, 1895.

TYPE LOCALITY.—Little Spring, San Francisco Mountain, Coconino County, Arizona. Altitude, 8,200 feet.

RANGE.—Boreal zone of San Francisco Mountain, from 8,200 feet altitude up to timber line at 11,000 feet.

Microtus alticola leucophæus (Allen).

1894. *Arvicola leucophæus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 6, p. 320. November 7, 1894.

1900. *Microtus alticolus leucophæus* BAILEY, North Amer. Fauna, No. 17, p. 53, June 6, 1900.

TYPE LOCALITY.—Graham Mountains, Graham County, Arizona.

RANGE.—Known only from the type locality.

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***Microtus mexicanus mexicanus** (Saussure).

1861. *Arvicola (Hemiotomys) mexicanus* SAUSSURE, Revue et magasin de zoologie, ser. 2, vol. 13, p. 3. January, 1861.

1885. *Arvicola mexicanus* TRUE, Proc. U. S. Nat. Mus., vol. 7, (1884), p. 597. 1885.

1897. [*Microtus*] *mexicanus* TROUESSART, Catal. Mamm. viv. foss., p. 564.

TYPE LOCALITY.—Mount Orizaba, State of Puebla, Mexico.

RANGE.—Eastern Puebla and to the north and west, grading into the subspecies *phæus*.

†*Microtus mexicanus phæus (Merriam).

1892. *Arvicola phæus* MERRIAM, Proc. Biol. Soc. Washington, vol. 7, p. 171. September 29, 1892.

1900. *Microtus mexicanus phæus* BAILEY, North Amer. Fauna, No. 17, p. 54. June 6, 1900.

TYPE LOCALITY.—North slope of Sierra Nevada de Colima, State of Jalisco, Mexico. Altitude, 10,000 feet.

RANGE.—Southern Jalisco and northward to northwestern Chihuahua; to eastward, grading into true *mexicanus*. Occupying the boreal and transition zones.

†*Microtus mexicanus guadalupensis Bailey.

1902. *Microtus mexicanus guadalupensis* BAILEY, Proc. Biol. Soc. Washington, vol. 15, p. 118. June 2, 1902.

TYPE LOCALITY.—Guadalupe Mountains, El Paso County, Texas. Altitude, 7,800 feet.

†*Microtus fulviventer Merriam.

1898. *Microtus fulviventer* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 106. April 30, 1898.

TYPE LOCALITY.—Cerro San Felipe, State of Oaxaca, Mexico. Altitude, 10,200 feet.

RANGE.—Central part of the State of Oaxaca.

***Microtus mogollonensis** (Mearns).

1890. *Arvicola mogollonensis* MEARNS, Bull. Amer. Mus. Nat. Hist., vol. 2, p. 283. February 21, 1890.

1896. *M[icrotus] mogollonensis* MILLER, Proc. Biol. Soc. Washington, vol. 11, p. 68. April 21, 1896.

TYPE LOCALITY.—Bakers Butte, Mogollon Mountains, Yavapai County, Arizona.

RANGE.—Plateau country of central Arizona.

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***Microtus xanthognathus** (Leach).

1815. *Arvicola xanthognatha* LEACH, Zool. Miscell., vol. 1, p. 60.

1885. *Arvicola xanthognathus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 597. 1885.

1896. *M[icrotus] xanthognathus* MILLER, North Amer. Fauna, No. 12, p. 66. July 23, 1896.

TYPE LOCALITY.—Hudson Bay.

RANGE.—Northwestern Canada and Alaska, from central Alberta north to the Arctic coast and west to central Alaska.

***Microtus chrotorrhinus chrotorrhinus** (Miller).

1894. *Arvicola chrotorrhinus* MILLER, Proc. Boston Soc. Nat. Hist., vol. 26, p. 190. March 24, 1894.

1896. *Microtus chrotorrhinus* BANGS, Proc. Biol. Soc. Washington, vol. 10, p. 49. March 9, 1896.

TYPE LOCALITY.—Head of Tuckerman's Ravine, Mount Washington, Coos County, New Hampshire. Altitude, 5,300 feet.

RANGE.—Mount Washington, the Catskills, central Quebec, and northern New Brunswick; in the Hudsonian zone.

Microtus chrotorrhinus ravus Bangs.

1898. *Microtus chrotorrhinus ravus* BANGS, Proc. Biol. Soc. Washington, vol. 12, p. 188. November 16, 1898.

TYPE LOCALITY.—Black Bay, Strait of Belle Isle, Labrador.

RANGE.—Known only from the type locality.

Subgenus AULACOMYS Rhoads.

1894. *Aulacomys* RHOADS, Amer. Nat., vol. 28, p. 182. Type, *Aulacomys arvicoloides* RHOADS.

***Microtus richardsoni richardsoni** (DeKay).

1842. *Arvicola richardsoni* DEKAY, Zool. New York, mamm., p. 91.

1894. *Aulacomys richardsoni* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, p. 288. October 23, 1894.

1897. [*Microtus*] *richardsoni* TROUESSART, Catal. Mamm. viv. foss., p. 565.

TYPE LOCALITY.—"Near the foot of the Rocky Mountains."

According to Bailey (North Amer. Fauna, No. 17, p. 60, June 6, 1900), the type was collected by Drummond in the vicinity of Jasper House, Alberta, Canada.

RANGE.—The typical form is known only from the vicinity of Jasper House and Henry House, Alberta, Canada. To the south it apparently grades into *macropus* in the Rocky Mountains and *arvicoloides* in the Cascades.

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†*Microtus richardsoni macropus (Merriam).

1891. *Arvicola* (*Mynomes*) *macropus* MERRIAM, North Amer. Fauna, No. 5, p. 59. July 30, 1891.

1900. *Microtus richardsoni macropus* BAILEY, North Amer. Fauna, No. 17, p. 61. June 6, 1900.

TYPE LOCALITY.—Pahsimeroi Mountains, Idaho. Altitude, about 9,700 feet.

RANGE.—Boreal zone of the Rocky Mountains from the Wasatch north to Canada, of the Wind River Mountains of Wyoming, the Blue Mountains of Oregon, and most of the intermediate ranges.

*Microtus richardsoni arvicoloides (Rhoads).

1894. *Aulacomys arvicoloides* RHOADS, Amer. Nat., vol. 28, p. 182. February 11, 1894.

1895. *Microtus principalis* RHOADS, Amer. Nat., vol. 29, p. 940. October, 1895. (Mount Baker Range, British Columbia.)

1900. *Microtus richardsoni arvicoloides* BAILEY, North Amer. Fauna, No. 17, p. 62. June 6, 1900.

TYPE LOCALITY.—Lake Keechelus, Kittitas County, Washington. Altitude, 8,000 feet.

RANGE.—Boreal zone of the Cascade Mountains, in Washington and Oregon.

Subgenus PEDOMYS Baird.

1857. *Pedomys* BAIRD, Mamm. N. Amer., p. 517. Type, *Arvicola austerus* LECONTE = *Hypudæus ochrogaster* WAGNER.

*Microtus ochrogaster (Wagner).

1842. *Hypudæus ochrogaster* WAGNER, Schreber's Säugthiere, Suppl., vol. 3, p. 592.

1885. *Arvicola austerus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 597. 1885.

1898. *Microtus ochrogaster* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 458. November 10, 1898.

1907. *Microtus ochrogaster* OSGOOD, Proc. Biol. Soc. Washington, vol. 20, p. 48. April 18, 1907.

TYPE LOCALITY.—America.

RANGE.—Central part of Mississippi Valley from southern Wisconsin to southern Missouri and Fort Reno, Oklahoma, and west into eastern Nebraska and Kansas.

†*Microtus ludovicianus Bailey.

1900. *Microtus ludovicianus* BAILEY, North Amer. Fauna, No. 17, p. 74. June 6, 1900.

TYPE LOCALITY.—Iowa, Calcasieu Parish, Louisiana.

RANGE.—Coast prairie of southwestern Louisiana, in lower austral zone.

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†***Microtus haydenii** (Baird).

1857. *Arvicola* (*Pedomys*) *haydenii* BAIRD, Mamm. N. Amer., p. 543.

1894. *Arvicola* (*Pedomys*) *haydenii* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 6, p. 328. November 7, 1894.

1895. *Microtus* (*Pedomys*) *haydenii* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 267. August 21, 1895.

TYPE LOCALITY.—Fort Pierre, Stanley County, South Dakota.

RANGE.—Plains region or western South Dakota, Nebraska, and Kansas, eastern Colorado and Wyoming, and southern Montana, in transition zone.

†***Microtus minor** (Merriam).

1888. *Arvicola austerus minor* MERRIAM, Amer. Nat., vol. 22, p. 600. July, 1888.

1900. *Microtus minor* BAILEY, North Amer. Fauna, No. 17, p. 75. June 6, 1900.

TYPE LOCALITY.—Bottineau, at base of Turtle Mountains, Bottineau County, North Dakota.

RANGE.—Northern border of the Great Plains from northeastern North Dakota to Edmonton, Alberta, and southeastward to Minneapolis, Minnesota.

Subgenus ORTHRIOMYS Merriam.

1898. *Orthriomys* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 106. April 30, 1898. Type, *Microtus umbrosus* MERRIAM.

†***Microtus umbrosus** Merriam.

1898. *Microtus umbrosus* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 107. April 30, 1898.

TYPE LOCALITY.—Mount Zempoaltepec, State of Oaxaca, Mexico. Altitude, 8,200 feet.

RANGE.—Known only from the east slope of Mount Zempoaltepec, in the humid upper austral zone.

Subgenus HERPETOMYS Merriam.

1898. *Herpetomys* MERRIAM, Proc. Biol. Soc. Washington vol. 12, p. 107. April 30, 1898. Type, *Microtus guatemalensis* MERRIAM.

†***Microtus guatemalensis** Merriam.

1898. *Microtus guatemalensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 108. April 30, 1898.

TYPE LOCALITY.—Todos Santos, State of Huehuetenango, Guatemala. Altitude, 10,000 feet.

RANGE.—Known only from the type locality.

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Subgenus CHILOTUS Baird.

1857. *Chilotus* BAIRD, Mamm. N. Amer., p. 516. Type, *Arvicola oregoni* BACHMAN.

*Microtus oregoni oregoni (Bachman).

1839. *Arvicola oregoni* BACHMAN, Journ. Acad. Nat. Sci. Philadelphia, vol. 8, pt. 1, p. 60.

1885. *Arvicola oregonus* TRUE, Proc. U. S. Nat. Mus., vol. 7, (1884), p. 597. 1885.

1896. *Microtus oregoni* MILLER, North Amer. Fauna, No. 12, p. 9. July 23, 1896.

1899. *Microtus morosus* ELLIOT, Field Columb. Mus., publ. 30, zool. ser., vol. 1, p. 227. February 1, 1899. (Boulder Lake, Olympic Mountains, Clallam County, Washington. Altitude, about 5,000 feet.)

TYPE LOCALITY.—Astoria, Clatsop County, Oregon.

RANGE.—Pacific coast region from northern California to Puget Sound.

†*Microtus oregoni adocetus Merriam.

1908. *Microtus oregoni adocetus* MERRIAM, Proc. Biol. Soc. Washington, vol. 21, p. 145. June 9, 1908.

TYPE LOCALITY.—South Yolla Bolly Mountain, western Tehama County, California.

†*Microtus serpens Merriam.

1897. *Microtus serpens* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 75. April 21, 1897.

TYPE LOCALITY.—Agassiz, British Columbia, Canada.

RANGE.—Low country of southern British Columbia and northern Washington between the Cascade Mountains and Puget Sound.

†*Microtus bairdi Merriam.

1897. *Microtus bairdi* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 74. April 21, 1897.

TYPE LOCALITY.—Glacier Peak, Crater Lake, Klamath County, Oregon. Altitude, 7,800 feet.

RANGE.—Known only from the type locality, but probably restricted to the Hudsonian zone of the higher Cascades.

Genus LAGURUS Gloger.[1]

1841. *Lagurus* GLOGER, Gemeinn. Hand- u. Hilfsbuch d. Naturgesch., vol. 1, p. 97. Type, *Lagurus migratorius* GLOGER =*Mus lagurus* PALLAS.

[1] Revised by Bailey, North Amer. Fauna, No. 17, pp. 67-70, June 6, 1900.

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Subgenus LEMMISCUS Thomas (See page 400).

*Lagurus curtatus (Cope).

1868. *Arvicola curtata* COPE, Proc. Acad. Nat. Sci. Philadelphia, p. 2.

1885. *Arvicola austerus curtatus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 597. 1885. (Part.)

TYPE LOCALITY.—Pigeon Spring, Mount Magruder, Nevada, near boundary between Inyo County, California, and Esmeralda County, Nevada.

RANGE.—Transition zone of the low mountain ranges in western Nevada and eastern California, east of the Sierra Nevada and north of Death Valley.

Lagurus intermedius (Taylor).

1911. *Microtus (Lagurus) intermedius* TAYLOR, Univ. Calif. Publ. Zool., vol. 7, p. 253. June 24, 1911.

TYPE LOCALITY.—Head of Big Creek, Pine Forest Mountains, Humboldt County, Nevada. Altitude, 8,000 feet.

†*Lagurus pallidus (Merriam).

1888. *Arvicola (Chilotus) pallidus* MERRIAM, Amer. Nat., vol. 22, p. 704. August, 1888.

TYPE LOCALITY.—Fort Buford, Howard County, North Dakota.

RANGE.—Transition prairies of western North Dakota, Montana, and as far north as Calgary, Alberta.

†*Lagurus pauperrimus (Cooper).

1868. *Arvicola pauperrima* COOPER, Amer. Nat., vol. 2, p. 535. December, 1868.

TYPE LOCALITY.—Plains of the Columbia, near the Snake River, southwestern Washington.

RANGE.—Eastern Washington and Oregon, central Idaho, and north slope of the Uinta Mountains, Utah, in transition zone.

Genus PITYMYS McMurtrie.[1]

1831. *Pitymys* MCMURTRIE, Cuvier's Anim. Kingdom, Amer. ed., vol. 1, p. 434. Type, *Psammomys pinetorum* LECONTE.

*Pitymys pinetorum pinetorum (LeConte).

1830. *Psammomys pinetorum* LECONTE, Ann. Lyc. Nat. Hist. New York, vol. 3, p. 133.

1885. *Arvicola pinetorum* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 596. 1885. (Part.)

TYPE LOCALITY.—Pine forests of Georgia, probably on the LeConte plantation, near Riceboro, Liberty County.

RANGE.—Georgia and the Carolinas.

[1] Revised by Bailey, North Amer. Fauna, No. 17, pp. 62-67, June 6, 1900.

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***Pitymys pinetorum scalopsoides** (Audubon and Bachman).

1841. *Arvicola scalopsoides* AUDUBON and BACHMAN, Proc. Acad. Nat. Sci. Philadelphia, vol. 1, p. 97. October, 1841.

1896. *Microtus pinetorum scalopsoides* BATCHELDER, Proc. Boston Soc. Nat. Hist., vol. 27, p. 187. October, 1896.

TYPE LOCALITY.—Long Island, New York.

RANGE.—Southern New York and westward to Illinois, southward along the coast, blending into true *pinetorum*.

†*Pitymys pinetorum auricularis (Bailey).

1898. *Microtus pinetorum auricularis* BAILEY, Proc. Biol Soc. Washington, vol. 12, p. 90. April 30, 1898.

TYPE LOCALITY.—Washington, Adams County, Mississippi.

RANGE.—Northern Mississippi, Tennessee, Kentucky, and southern Indiana, or in a general way the region between the Allegheny Mountains and the Mississippi River, mainly in the lower austral zone.

†*Pitymys nemoralis (Bailey).

1898. *Microtus pinetorum nemoralis* BAILEY, Proc. Biol. Soc. Washington, vol. 12, p. 89. April 30, 1898.

TYPE LOCALITY.—Stilwell, Adair County, Oklahoma.

RANGE.—West of the Mississippi River from central Arkansas north to Council Bluffs, Iowa.

***Pitymys quasiater** (Coues).

1874. *Arvicola* (*Pitymys*) *pinetorum* var. *quasiater* COUES, Proc. Acad. Nat. Sci. Philadelphia, p. 191. December 15, 1874.

1885. *Arvicola quasiater* TRUE, Proc. U. S. Nat. Mus., vol. 7, (1884), p. 596. 1885.

TYPE LOCALITY.—Jalapa, State of Vera Cruz, Mexico.

RANGE.—Central Vera Cruz and eastern Puebla, on the east slope of the mountains (altitude, 4,000 to 5,000 feet), in humid tropical and lower edge of lower austral zones.

Genus NEOFIBER True.

1884. *Neofiber* TRUE, Science, vol. 4, p. 34. July 11, 1884. Type, *Neofiber alleni* TRUE.

†*Neofiber alleni True.

1884. *Neofiber alleni* TRUE, Science, vol. 4, p. 34. July 11, 1884.

1885. *Neofiber alleni* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 596. 1885.

TYPE LOCALITY.—Georgiana, Brevard County, Florida.

RANGE.—Eastern and central Florida.

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Genus ONDATRA Link.[1]

1795. *Ondatra* LINK, Beyträge zur Naturgesch., vol. 1, pt. 2, p. 76. Type by tautonymy, *Castor zibethicus* LINNÆUS.[2]

1800. *Fiber* CUVIER, Leçons d'anat. comp., vol. 1, tabl. 1 (described but not named in 1798, Tabl. élém. de l'hist. nat. des anim., p. 141). Type, *Castor zibethicus* LINNÆUS.

*Ondatra obscura (Bangs).

1894. *Fiber obscurus* BANGS, Proc. Biol. Soc. Washington, vol. 9, p. 133. September 15, 1894.

TYPE LOCALITY.—Codroy, Newfoundland.

RANGE.—Newfoundland.

*Ondatra zibethica zibethica (Linnæus).

1766. [*Castor*] *zibethicus* LINNÆUS, Syst. Nat., ed. 12, vol. 1, p. 79.

1795. [*Ondatra*] *zibethicus* LINK, Beyträge zur Naturgesch., vol. 1, pt. 2, p. 76.

1885. *Fiber zibethicus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 596. 1885.

TYPE LOCALITY.—Eastern Canada.

RANGE.—Southeastern Canada, northeastern and east central United States; from New Brunswick and Quebec west to Minnesota, and south to northern Georgia and Arkansas, except along the Atlantic seaboard south of Delaware Bay.

†*Ondatra zibethica macrodon (Merriam).

1897. *Fiber macrodon* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 143. May 13, 1897.

TYPE LOCALITY.—Lake Drummond, Dismal Swamp, Norfolk County, Virginia.

RANGE.—Middle Atlantic coast region of the United States, from Delaware Bay to Pamlico Sound; inland to Washington, Virginia, and Raleigh, North Carolina.

*Ondatra zibethica aquilonia (Bangs).

1899. *Fiber zibethicus aquilonius* BANGS, Proc. New England Zool. Club, vol. 1, p. 11. February 28, 1899.

TYPE LOCALITY.—Rigolet, Hamilton Inlet, Labrador.

RANGE.—Labrador and Ungava.

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[1] Revised (under name *Fiber*) by Hollister, North Amer. Fauna, No. 32, April 29, 1911.

[2] According to Hollister (Proc. Biol. Soc. Washington, vol. 24, p. 14, January 28, 1911) *Mus coypus* Molina should be regarded as the type of the genus *Ondatra*.

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***Ondatra zibethica alba** (Sabine).

1823. *Fiber zibethicus—albus* SABINE, Franklin's Narrative, Journ. to Polar Sea, p. 660.

†1902. *Fiber zibethicus hudsonius* PREBLE, North Amer. Fauna, No. 22, p. 53. October 31. (Fort Churchill, Keewatin.)

1911. *Fiber zibethicus albus* HOLLISTER, North Amer. Fauna, No. 32, p. 20. April 29, 1911.

TYPE LOCALITY.—Cumberland House, Saskatchewan.

RANGE.—Waters draining into Hudson Bay from the west, in eastern Saskatchewan and Keewatin; north to the Barren Grounds.

†*Ondatra zibethica spatulata (Osgood).

1900. *Fiber spatulatus* OSGOOD, North Amer. Fauna, No. 19, p. 36. October 6, 1900.

TYPE LOCALITY.—Lake Marsh, Yukon, Canada.

RANGE.—Northwestern North America, from the Kowak River and Yukon Valley, Alaska, East to the Anderson River and south into British Columbia and Alberta.

†*Ondatra zibethica zalophus (Hollister).

1910. *Fiber zibethicus zalophus* HOLLISTER, Proc. Biol. Soc. Washington, vol. 23, p. 1. February 2, 1910.

TYPE LOCALITY.—Becharos Lake, Alaska.

RANGE.—Alaska Peninsula, north to Nushagak and east to the head of Cook Inlet.

***Ondatra zibethica osoyoosensis** (Lord).

1863. *Fiber osoyoosensis* LORD, Proc. Zool. Soc. London, p. 97.

1910. *F[iber] z[ibethicus] osoyoosensis* HOLLISTER, Proc. Biol. Soc. Washington, vol. 23, p. 1. February 2, 1910.

TYPE LOCALITY.—Lake Osoyoos, British Columbia, Canada.

RANGE.—Puget Sound region and Rocky Mountains, from southern British Columbia, Washington, Idaho, and Western Montana, south in the mountains to Northern New Mexico.

***Ondatra zibethica occipitalis** (Elliot).

1903. *Fiber occipitalis* ELLIOT, Field Columb. Mus., publ. 74, zool. ser., vol. 3, p. 162. April, 1903.

TYPE LOCALITY.—Florence, Lane County, Oregon.

RANGE.—Northern Willamette Valley and coast of Oregon.

†*Ondatra zibethica mergens (Hollister).

1910. *Fiber zibethicus mergens* HOLLISTER, Proc. Biol. Soc. Washington, vol. 23, p. 1. February 2, 1910.

TYPE LOCALITY.—Fallon, Churchill County, Nevada.

RANGE.—Northern part of the Great Basin; southeastern Oregon, northeastern California, Nevada, and western Utah.

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***Ondatra zibethica pallida** (Mearns).

1890. *Fiber zibethicus pallidus* MEARNS, Bull. Amer. Mus. Nat. Hist., vol. 2, p. 280. February 21, 1890.

TYPE LOCALITY.—Fort Verde, Yavapai County, Arizona.

RANGE.—Colorado River Valley, California, Lower California, and Arizona; east to the Rio Grande Valley in New Mexico.

†*Ondatra zibethica ripensis (Bailey).

1902. *Fiber zibethicus ripensis* BAILEY, Proc. Biol. Soc. Washington, vol. 15, p. 119. June 2, 1902.

TYPE LOCALITY.—Carlsbad (Eddy), Eddy County, New Mexico.

RANGE.—Pecos Valley, in Texas and New Mexico.

†*Ondatra zibethica cinnamomina (Hollister).

1910. *Fiber zibethicus cinnamominus* HOLLISTER, Proc. Biol. Soc. Washington, vol. 23, p. 125. September 2, 1910.

TYPE LOCALITY.—Wakeeney, Trego County, Kansas.

RANGE.—Great central plains region of western United States and Canada; from Manitoba south to northern Texas; east to central Iowa and west to the Rocky Mountains.

***Ondatra rivalicia** (Bangs).

1895. *Fiber zibethicus rivalicius* BANGS, Proc. Boston Soc. Nat. Hist., vol. 26, p. 541. July 31, 1895.

TYPE LOCALITY.—Burbridge, Plaquemines Parish, Louisiana.

RANGE.—Coast region of Louisiana, north to northern Calcasieu, Pointe Coupee, and Tangipahoa Parishes.

Subfamily MURINÆ.

Genus EPIMYS Trouessart.

1881. *Epimys* TROUESSART, Bull. Soc. d'Études Sci. d'Angers, vol. 10, p. 117. Type, by subsequent designation, *Mus rattus* LINNÆUS. (See Miller, Proc. Biol. Soc. Washington, vol. 23, pp. 57–60, April 19, 1910.)

***Epimys norvegicus** (Erxleben).

1777. [*Mus*] *norvegicus* ERXLEBEN, Syst. Regni Anim., vol. 1, p. 381.

1908. *Epimys norvegicus* SATUNIN, Mitth. Kauk. Mus., Tiflis, vol. 4, p. 111.

TYPE LOCALITY.—Norway.

Usually known as *Mus decumanus* PALLAS (Nov. sp. quadr. glir. ord., p. 91, 1778). For change see Rehn, Proc. Biol. Soc. Washington, vol. 13, p. 167, October 31, 1900.

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***Epimys rattus rattus** (Linnæus).

1758. [*Mus*] *rattus* LINNÆUS, Syst. Nat., ed. 10, vol. 1, p. 61.

1908. *Epimys rattus* SATUNIN, Mitth. Kauk. Mus., Tiflis, vol. 4, p. 112.

TYPE LOCALITY.—Sweden.

***Epimys rattus alexandrinus** (Geoffroy).

1818. *Mus alexandrinus* GEOFFROY, Description de l'Egypte, mammifères, p. 733.

TYPE LOCALITY.—Alexandria, Egypt.

Genus MUS Linnæus.

1758. *Mus* LINNÆUS, Syst. Nat., ed. 10, vol. 1, p. 59. Type, *Mus musculus* LINNÆUS (by tautonymy).

***Mus musculus musculus** Linnæus.

1758. [*Mus*] *musculus* LINNÆUS, Syst. Nat., ed. 10, vol. 1, p. 62.

TYPE LOCALITY.—Sweden.

***Mus musculus jalapæ** Allen and Chapman.

1897. *Mus musculus jalapæ* ALLEN and CHAPMAN, Bull. Amer. Mus. Nat. Hist., vol. 9, p. 198. June 16, 1897.

TYPE LOCALITY.—Jalapa, State of Vera Cruz, Mexico.

Family GEOMYIDÆ.

Genus THOMOMYS Wied.

1839. *Thomomys* WIED, Nova acta phys. med. acad. caes. Leop.-Carol., vol. 19, pt. 1, p. 377. Type, *Thomomys rufescens* WIED.

Subgenus THOMOMYS Wied.

***Thomomys albatus** Grinnell.

1912. *Thomomys albatus* GRINNELL, Univ. Calif. Publ. Zool., vol. 10, p. 172. June 7, 1912.

TYPE LOCALITY.—West side of Colorado River, at old Hanlon ranch, near Pilot Knob, Imperial County, California.

†*Thomomys alpinus alpinus Merriam.

1897. *Thomomys alpinus* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 216. July 15, 1897.

TYPE LOCALITY.—Big Cottonwood Meadows, 8 miles southeast of Mount Whitney peak, High Sierra, Tulare County, California. Altitude, 10,000 feet.

†*Thomomys alpinus awahnee Merriam.

1908. *Thomomys alpinus awahnee* MERRIAM, Proc. Biol. Soc. Washington, vol. 21, p. 146. June 9, 1908.

TYPE LOCALITY.—Yosemite Valley, Mariposa County, California.

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***Thomomys altivallis** Rhoads.

1895. *Thomomys altivallis* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, p. 34. February 21, 1895.

TYPE LOCALITY.—San Bernardino Mountains, California. Altitude, 5,000 feet.

†*Thomomys angularis angularis Merriam.

1897. *Thomomys angularis* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 214. July 15, 1897.

TYPE LOCALITY.—Los Baños, Merced County, California.

†*Thomomys angularis pascalis Merriam.

1901. *Thomomys angularis pascalis* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 111. July 19, 1901.

TYPE LOCALITY.—Fresno, San Joaquin Valley, Fresno County, California.

†*Thomomys apache Bailey.

1910. *Thomomys apache* BAILEY, Proc. Biol. Soc. Washington, vol. 23, p. 79. May 4, 1910.

TYPE LOCALITY.—Lake La Jara, on the Jicarilla Apache Indian Reservation, New Mexico. Altitude, 7,500 feet.

***Thomomys aphrastus** Elliot.

1903. *Thomomys aphrastus* ELLIOT, Field Columb. Mus., publ. 79, zool. ser., vol. 3, p. 219. June, 1903.

TYPE LOCALITY.—San Tomas, Lower California, Mexico.

***Thomomys atrovarius** Allen.

1898. *Thomomys atrovarius* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 148. April 12, 1898.

TYPE LOCALITY.—Tatemales, State of Sinaloa, Mexico.

***Thomomys aureus aureus** Allen.

1893. *Thomomys aureus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 5, p. 49. April 28, 1893.

TYPE LOCALITY.—Bluff City, San Juan County, Utah.

†*Thomomys aureus lachuguilla Bailey.

1902. *Thomomys aureus lachuguilla* BAILEY, Proc. Biol. Soc. Washington, vol. 15, p. 120. June 2, 1902.

TYPE LOCALITY.—Arid foothills near El Paso, El Paso County, Texas.

†*Thomomys aureus perpes Merriam.

1901. *Thomomys aureus perpes* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 111. July 19, 1901.

TYPE LOCALITY.—Lone Pine, Owens Valley, Inyo County, California.

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†*Thomomys aureus pervagus Merriam.

1901. *Thomomys aureus pervagus* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 110. July 19, 1901.

TYPE LOCALITY.—Espanola, Santa Fe County, New Mexico.

†*Thomomys baileyi Merriam.

1901. *Thomomys baileyi* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 109. July 19, 1901.

TYPE LOCALITY.—Sierra Blanca, El Paso County, Texas.

*Thomomys bottæ bottæ (Eydoux and Gervais).

1836. *Oryctomys (Saccophorus) bottæ* EYDOUX and GERVAIS, Mag. de zool., vol. 6, p. 23.

1855. *Thomomys bottæ* BAIRD, Proc. Acad. Nat. Sci. Philadelphia, vol. 7, p. 335.

1885. *Thomomys talpoides bulbivorus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 599. 1885. (Part.)

1893. *Thomomys bottæ* MILLER, Bull. Amer. Mus. Nat. Hist., vol. 5, p. 57. April 28, 1893.

TYPE LOCALITY.—Coast of California. Name applied by Baird in 1855 to the form occurring in the vicinity of Monterey, and reapplied to the same animal by Miller in 1893.

*Thomomys bottæ pallescens Rhoads.

1895. *Thomomys bottæ pallescens* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, p. 36. February 21, 1895.

TYPE LOCALITY.—Grapelands, San Bernardino Valley, California.

†*Thomomys bottæ russeolus Nelson and Goldman.

1909. *Thomomys bottæ russeolus* NELSON and GOLDMAN, Proc. Biol. Soc. Washington, vol. 22, p. 25. March 10, 1909.

TYPE LOCALITY.—San Angel, 30 miles west of San Ignacio, Lower California, Mexico.

†*Thomomys bridgeri Merriam.

1901. *Thomomys bridgeri* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 113. July 19, 1901.

TYPE LOCALITY.—Fort Bridger, Uinta County, Wyoming.

†*Thomomys cabezonæ Merriam.

1901. *Thomomys cabezonæ* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 110. July 19, 1901.

TYPE LOCALITY.—Cabezon, San Gorgonio Pass, Riverside County, California.

†*Thomomys canus Bailey.

1910. *Thomomys canus* BAILEY, Proc. Biol. Soc. Washington, vol. 23, p. 79. May 4, 1910.

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Thomomys canus—Continued.

TYPE LOCALITY.—Deep Hole, at north end of Smoke Creek Desert, Washoe County, Nevada.

***Thomomys cervinus** Allen.

1895. *Thomomys cervinus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 203. June 29, 1895.

TYPE LOCALITY.—Phoenix, Maricopa County, Arizona.

Thomomys chrysonotus Grinnell.

1912. *Thomomys chrysonotus* GRINNELL, Univ. Calif. Publ. Zool., vol. 10, p. 174. June 7, 1912.

TYPE LOCALITY.—Ehrenberg, Yuma County, Arizona.

†***Thomomys clusius clusius** Coues.

1875. *Thomomys clusius* COUES, Proc. Acad. Nat. Sci. Philadelphia, p. 138. June 15, 1875.

1885. *Thomomys clusius* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 598. 1885.

TYPE LOCALITY.—Bridger Pass, Sweetwater County, Wyoming.

†***Thomomys clusius ocius** Merriam.

1901. *Thomomys clusius ocius* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 114. July 19, 1901.

TYPE LOCALITY.—Fort Bridger, Uinta County, Wyoming.

†***Thomomys desertorum** Merriam.

1901. *Thomomys desertorum* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 114. July 19, 1901.

TYPE LOCALITY.—Mud Spring, Detrital Valley, Mohave County, Arizona.

***Thomomys douglasii douglasii** (Richardson).

1829. *Geomys douglasii* RICHARDSON, Fauna Boreali-Americana, vol. 1, p. 200.

1893. *Thomomys douglasii* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 5, p. 66. April 28, 1893.

TYPE LOCALITY.—Near the mouth of the Columbia River, Oregon.

†***Thomomys douglasii oregonus** Merriam.

1901. *Thomomys douglasi oregonus* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 115. July 19, 1901.

TYPE LOCALITY.—Oregon City, Willamette Valley, Clackamas County, Oregon.

†***Thomomys douglasii yelmensis** Merriam.

1899. *Thomomys douglasi yelmensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 13, p. 21. January 31, 1899.

TYPE LOCALITY.—Tenino, Yelm Prairie, Thurston County, Washington.

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***Thomomys fossor** Allen.

1893. *Thomomys fossor* ALLEN, Bull. Amer. Mus Nat. Hist., vol. 5, p. 51. April 28, 1893.

TYPE LOCALITY.—Florida, La Plata County, Colorado. Altitude, 7,200 feet.

†*Thomomys fulvus fulvus (Woodhouse).

1852. *Geomys fulvus* WOODHOUSE, Proc. Acad. Nat. Sci. Philadelphia, vol. 6, p. 201.

1857. *Thomomys fulvus* BAIRD, Mamm. N. Amer., p. 402.

1890. *Thomomys fulvus* MERRIAM, North Amer. Fauna, No. 3, p. 71. September 11, 1890.

TYPE LOCALITY.—San Francisco Mountain, Coconino County, Arizona.

***Thomomys fulvus alticola** Allen.

1899. *Thomomys fulvus alticolus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 12, p. 13. April 4, 1899.

TYPE LOCALITY.—Sierra Laguna, Lower California, Mexico. Altitude, 7,000 feet.

***Thomomys fulvus anitæ** Allen.

1898. *Thomomys fulvus anitæ* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 146. April 12, 1898.

TYPE LOCALITY.—Santa Anita, Lower California, Mexico.

†*Thomomys fulvus intermedius Mearns.

1897. *Thomomys fulvus intermedius* MEARNS, Proc. U. S. Nat. Mus., vol. 19, p. 719. July 30, 1897.

TYPE LOCALITY.—Summit of Huachuca Mountains, southern Arizona. Altitude, 9,000 feet.

***Thomomys fulvus martirensis** Allen.

1898. *Thomomys fulvus martirensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 147. April 12, 1898.

TYPE LOCALITY.—San Pedro Martir Mountains, Lower California, Mexico. Altitude, 8,200 feet.

***Thomomys fulvus nigricans** Rhoads.

1895. *Thomomys fulvus nigricans* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, p. 36. February 21, 1895.

TYPE LOCALITY.—Witch Creek, San Diego County, California.

†*Thomomys fulvus texensis Bailey.

1902. *Thomomys fulvus texensis* BAILEY, Proc. Biol. Soc. Washington, vol. 15, p. 119. June 2, 1902.

TYPE LOCALITY.—Head of Limpia Creek, at 5,500 feet altitude, Davis Mountains, Jeff Davis County, Texas.

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†*Thomomys fuscus fuscus (Merriam).

1891. *Thomomys clusius fuscus* MERRIAM, North Amer. Fauna, No. 5, p. 70. July 30, 1891.

1901. [*Thomomys*] *fuscus* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 111. July 19, 1901.

TYPE LOCALITY.—Mountains at head of Big Lost River, Custer County, Idaho.

†*Thomomys fuscus fisheri Merriam.

1901. *Thomomys fuscus fisheri* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 111. July 19, 1901.

TYPE LOCALITY.—Beckwith, Sierra Valley, Plumas County, California.

†*Thomomys goldmani Merriam.

1901. *Thomomys goldmani* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 108. July 19, 1901.

TYPE LOCALITY.—Mapimi, State of Durango, Mexico.

*Thomomys helleri Elliot.

1903. *Thomomys helleri* ELLIOT, Field Columb. Mus., publ. 74, zool. ser., vol. 3, p. 165. April, 1903.

TYPE LOCALITY.—Goldbeach, mouth of Rogue River, Curry County, Oregon.

†*Thomomys hesperus Merriam.

1901. *Thomomys hesperus* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 116. July 19, 1901.

TYPE LOCALITY.—Tillamook, Tillamook County, Oregon.

†*Thomomys idahoensis Merriam.

1901. *Thomomys idahoensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 114. July 19, 1901.

TYPE LOCALITY.—Birch Creek, Fremont County, Idaho.

†*Thomomys laticeps Baird.

1855. *Thomomys laticeps* BAIRD, Proc. Acad. Nat. Sci. Philadelphia, vol. 7, p. 335. April, 1855.

1893. *Thomomys laticeps* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 5, p. 63. April 28, 1893.

TYPE LOCALITY.—Humboldt Bay, Humboldt County, California.

†*Thomomys latirostris Merriam.

1901. *Thomomys latirostris* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 107. July 19, 1901.

TYPE LOCALITY.—Little Colorado River, Painted Desert, Coconino County, Arizona.

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†*Thomomys leucodon leucodon Merriam.

1897. *Thomomys leucodon* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 215. July 15, 1897.

TYPE LOCALITY.—Grant Pass, Rogue River Valley, Oregon.

†*Thomomys leucodon navus Merriam.

1901. *Thomomys leucodon navus* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 112. July 19, 1901.

TYPE LOCALITY.—Red Bluff, Tehama County, California.

†*Thomomys limosus Merriam.

1901. *Thomomys limosus* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 116. July 19, 1901.

TYPE LOCALITY.—White Salmon, Gorge of the Columbia, Klickitat County, Washington.

†*Thomomys magdalenæ Nelson and Goldman.

1909. *Thomomys magdalenæ* NELSON and GOLDMAN, Proc. Biol. Soc. Washington, vol. 22, p. 24. March 10, 1909.

TYPE LOCALITY.—Magdalena Island, Lower California, Mexico.

†*Thomomys mazama Merriam.

1897. *Thomomys mazama* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 214. July 15, 1897.

TYPE LOCALITY.—Crater Lake, Mount Mazama, Klamath County, Oregon. Altitude, 6,000 feet.

†*Thomomys melanops Merriam.

1899. *Thomomys melanops* MERRIAM, Proc. Biol. Soc. Washington, vol. 13, p. 21. January 31, 1899.

TYPE LOCALITY.—Timberline at head of Soleduc River, Olympic Mountains, Clallam County, Washington.

†*Thomomys mewa Merriam.

1908. *Thomomys mewa* MERRIAM, Proc. Biol. Soc. Washington, vol. 21, p. 146. June 9, 1908.

TYPE LOCALITY.—Raymond, Madera County, California.

*Thomomys monticola monticola Allen.

1893. *Thomomys monticolus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 5, p. 48. April 28, 1893.

TYPE LOCALITY.—Mount Tallac, El Dorado County, California. Altitude, 7,500 feet.

†*Thomomys monticola pinetorum Merriam.

1899. *Thomomys monticolus pinetorum* MERRIAM, North Amer. Fauna, No. 16, p. 97. October 28, 1899.

TYPE LOCALITY.—Sisson, Siskiyou County, California.

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†*Thomomys myops Merriam.

1901. *Thomomys myops* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 112. July 19, 1901.

TYPE LOCALITY.—Conconully, east base of Cascade Range, Okanogan County, Washington.

†*Thomomys nasicus Merriam.

1897. *Thomomys nasicus* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 216. July 15, 1897.

TYPE LOCALITY.—Farewell Bend, Des Chutes River, Crook County, Oregon.

†*Thomomys nelsoni Merriam.

1901. *Thomomys nelsoni* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 109. July 19, 1901.

TYPE LOCALITY.—Parral, State of Chihuahua, Mexico.

†*Thomomys nevadensis Merriam.

1897. *Thomomys nevadensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 213. July 15, 1897.

TYPE LOCALITY.—Austin, Lander County, Nevada.

†*Thomomys niger Merriam.

1901. *Thomomys niger* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 117. July 19, 1901.

TYPE LOCALITY.—Seaton, near mouth of Umpqua River, Douglas County, Oregon.

†*Thomomys operarius Merriam.

1897. *Thomomys operarius* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 215. July 15, 1897.

TYPE LOCALITY.—Keeler, east side of Owens Lake, Inyo County, California.

†*Thomomys orizabæ Merriam.

1893. *Thomomys orizabæ* MERRIAM, Proc. Biol. Soc. Washington, vol. 8, p. 145. December 29, 1893.

TYPE LOCALITY.—Mount Orizaba, State of Puebla, Mexico. Altitude, about 9,500 feet.

†*Thomomys perditus Merriam.

1901. *Thomomys perditus* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 108. July 19, 1901.

TYPE LOCALITY.—Lampazos, State of Nuevo Leon, Mexico.

†*Thomomys peregrinus Merriam.

1893. *Thomomys peregrinus* MERRIAM, Proc. Biol. Soc. Washington, vol. 8, p. 146. December 29, 1893.

TYPE LOCALITY.—Salazar, State of Mexico, Mexico.

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†*Thomomys perpallidus (Merriam).

1886. *Thomomys talpoides perpallidus* MERRIAM, Science, vol 8, p. 588. December 24, 1886.

1893. *Thomomys perpallidus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 5, p. 54. April 28, 1893.

TYPE LOCALITY.—Colorado Desert, Imperial County, California.

†*Thomomys pygmæus Merriam.

1901. *Thomomys pygmæus* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 115. July 19, 1901.

TYPE LOCALITY.—Montpelier Creek, Bear County, Idaho. Altitude, 6,700 feet.

†*Thomomys quadratus Merriam.

1897. *Thomomys quadratus* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 214. July 15, 1897.

TYPE LOCALITY.—The Dalles, Wasco County, Oregon.

*Thomomys rufescens Wied.

1839. *Thomomys rufescens* WIED, Nova acta phys. med. acad. caes. Leop.-Carol., vol. 19, pt. 1, p. 378.

1893. *Thomomys rufescens* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 5, p. 62. April 28, 1893.

TYPE LOCALITY.—Missouri River, exact locality not known. (See Allen, Bull. Amer. Mus. Nat. Hist., vol. 5, p. 62, April 28 1893.)

Regarded by Allen (Bull. Amer. Mus. Nat. Hist., vol. 5, p. 67, April 28, 1893) as questionably distinct from *T. talpoides*.

*Thomomys scapterus Elliot.

1903. *Thomomys scapterus* ELLIOT, Field Columb. Mus., publ. 87, zool. ser., vol. 3, p. 248. December, 1903.

TYPE LOCALITY.—Hannopee Canyon, Panamint Mountains, Inyo County, California.

†*Thomomys sinaloæ Merriam.

1901. *Thomomys sinaloæ* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 108. July 19, 1901.

TYPE LOCALITY.—Altata, State of Sinaloa, Mexico.

*Thomomys talpoides talpoides (Richardson).

1828. *Cricetus talpoides* RICHARDSON, Zool. Journ., vol. 3, p. 518.

1857. *Thomomys talpoides* BAIRD, Mamm. N. Amer., p. 403.

1885. *Thomomys talpoides talpoides* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 598. 1885. (Part.)

TYPE LOCALITY.—Probably Saskatchewan, Canada. (See Allen, Bull. Amer. Mus. Nat. Hist., vol. 5, p. 55, April 28, 1893.)

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†*Thomomys talpoides agrestis Merriam.

1908. *Thomomys talpoides agrestis* MERRIAM, Proc. Biol. Soc. Washington, vol. 21, p. 144. June 9, 1908.

TYPE LOCALITY.—Medano Ranch, San Luis Valley, Colorado.

*Thomomys toltecus Allen.

1893. *Thomomys toltecus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 5, p. 52. April 28, 1893.

TYPE LOCALITY.—Juarez, State of Chihuahua, Mexico.

Thomomys townsendii (Bachman).

1839. *Geomys townsendii* BACHMAN, Journ. Acad. Nat. Sci. Philadelphia, vol., 8, p. 105.

1893. *Thomomys townsendii* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 5, p. 61. April 28, 1893.

TYPE LOCALITY.—"Rocky Mountains;" probably southwestern Wyoming. (See Allen, Bull. Amer. Mus. Nat. Hist., vol. 5, p. 61, April 28, 1893.)

†*Thomomys uinta Merriam.

1901. *Thomomys uinta* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 112. July 19, 1901.

TYPE LOCALITY.—Uinta Mountains. Summit County, Utah. Altitude, 10,000 feet.

*Thomomys umbrinus (Richardson).

1829. *Geomys umbrinus* RICHARDSON, Fauna Boreali-Americana, vol. 1, p. 202.

1906. *Thomomys umbrinus* BAILEY, Proc. Biol. Soc. Washington, vol. 19, p. 3, January 29, 1906.

TYPE LOCALITY.—Southern Mexico; probably the vicinity of Boca del Monte, Vera Cruz. (See Bailey, Proc. Biol. Soc. Washington, vol. 19, pp. 3–6, January 29 1906.)

Subgenus MEGASCAPHEUS Elliot

1903. *Megascapheus* ELLIOT, Field Columb. Mus., publ. 76, zool. ser., vol. 3, p. 190. May, 1903. Type. *Diplostoma bulbivorum* RICHARDSON.

*Thomomys bulbivorus (Richardson).

1829. *Diplostoma bulbivorum* RICHARDSON, Fauna Boreali-Americana, vol. 1, p. 206.

1857. *Thomomys bulbivorus* BAIRD, Mamm. N. Amer., p. 389.

1893. *Thomomys bulbivorus* MILLER, Bull. Amer. Mus. Nat. Hist., vol. 5, p. 57. April 28, 1893.

TYPE LOCALITY.—Banks of the Columbia River, Oregon.

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Genus GEOMYS Rafinesque.[1]

1817. *Geomys* RAFINESQUE, Amer. Monthly Magazine, vol. 2, p. 45. November, 1817. Type, *Geomys minetis* RAFINESQUE (= *Mus tuza* ORD).

***Geomys tuza tuza** (Ord).

1815. *Mus tuza* ORD, Guthrie's Geography, 2d Amer. ed., vol. 2, p. 292.

1875. *Geomys tuza* COUES, Proc. Acad. Nat. Sci. Philadelphia, p. 132.

1885. *Geomys tuza* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 599. 1885.

TYPE LOCALITY.—Pine barrens near Augusta, Richmond County, Georgia.

RANGE.—Pine barrens of Georgia (and probably northern Florida also), within the Austroriparian faunal area.

†*Geomys tuza mobilensis Merriam.

1895. *Geomys tuza mobilensis* MERRIAM, North Amer. Fauna, No. 8, p. 119. January 31, 1895.

TYPE LOCALITY.—Mobile Bay, Baldwin County, Alabama.

RANGE.—Southern Alabama and adjacent part of northwest Florida, within the Austroriparian zone.

***Geomys floridanus floridanus** (Audubon and Bachman).

1854. *Pseudostoma floridana* AUDUBON and BACHMAN, Quadr. N. Amer., vol. 3, p. 242.

1895. *Geomys tuza floridanus* MERRIAM, North Amer. Fauna, No. 8, p. 115. January 31, 1895.

1898. *Geomys floridanus* BANGS, Proc. Boston Soc. Nat. Hist., vol. 28, p. 176. March, 1898.

TYPE LOCALITY.—St. Augustine, St. John County, Florida.

***Geomys floridanus austrinus** Bangs.

1898. *Geomys floridanus austrinus* BANGS, Proc. Boston Soc. Nat. Hist., vol. 28, p. 177. March, 1898.

TYPE LOCALITY.—Belleair, Hillsboro County, Florida.

***Geomys colonus** Bangs.

1898. *Geomys colonus* BANGS, Proc. Boston Soc. Nat. Hist., vol. 28, p. 178. March, 1898.

TYPE LOCALITY.—St. Mary's, Camden County, Georgia.

***Geomys cumberlandius** Bangs.

1898. *Geomys cumberlandius* BANGS, Proc. Boston Soc. Nat. Hist., vol. 28, p. 180. March, 1898.

TYPE LOCALITY.—"Stafford Place," Cumberland Island, Camden County, Georgia.

[1] Revised by Merriam, North Amer. Fauna, No. 8, pp. 109–145, January 31, 1895.

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***Geomys bursarius (Shaw).**

1800. *Mus bursarius* SHAW, Trans. Linn. Soc., vol. 5, p. 227.

1829. *Geomys bursarius* RICHARDSON, Fauna Boreali-Americana, vol. 1, p. 203.

1885. *Geomys bursarius* TRUE, Proc. U. S. Nat. Mus., vol 7 (1884), p. 599. 1885.

TYPE LOCALITY.—Unknown; somewhere in the upper Mississippi Valley.

RANGE.—Upper Mississippi Valley from a short distance south of the Canadian boundary southward to eastern Kansas, southeastern Missouri, and southern Illinois; east nearly to Lake Michigan; west in the Dakotas and Nebraska to the ninety-eighth or ninety-ninth meridian. Upper Sonoran and Transition zones.

†*Geomys lutescens (Merriam).

1890. *Geomys bursarius lutescens* MERRIAM, North Amer. Fauna, no. 4, p. 51. October 8, 1890.

1895. *Geomys lutescens* MERRIAM, North Amer. Fauna, No. 8, p. 127. January 31, 1895.

TYPE LOCALITY.—Sandhills on Birdwood Creek, Lincoln County, western Nebraska.

RANGE.—The Upper Sonoran belt of the Great Plains from southwestern South Dakota southward to Colorado, Texas, covering the sand-hill region of western Nebraska, extreme eastern Wyoming, western Kansas, eastern Colorado, western Oklahoma, and western Texas, ranging east to or a little beyond the ninety-ninth meridian.

†*Geomys breviceps breviceps Baird.

1855. *Geomys breviceps* BAIRD, Proc. Acad. Nat. Sci. Philadelphia, vol. 7, p. 335.

1895. *Geomys breviceps* MERRIAM, North Amer. Fauna, No. 8, p. 129. January 31, 1895.

TYPE LOCALITY.—Prairie Mer Rouge, Morehouse Parish, Louisiana.

RANGE.—The alluvial lowlands of the Mississippi Valley and Gulf coast of southern Arkansas, Louisiana, and Texas, and the valley of the Arkansas River; north nearly to southern Kansas, and west to near the ninety-eighth meridian. Austroriparian fauna.

†*Geomys breviceps sagittalis Merriam.

1895. *Geomys breviceps sagittalis* MERRIAM, North Amer. Fauna, No. 8, p. 134. January 31, 1895.

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Geomys breviceps sagittalis—Continued.

TYPE LOCALITY.—Clear Creek, Galveston Bay, Galveston County, Texas.

RANGE.—Gulf coast of Texas about Galveston Bay.

†***Geomys breviceps attwateri** Merriam.

1895. *Geomys breviceps attwateri* MERRIAM, North Amer. Fauna, No. 8, p. 135. January 31, 1895.

TYPE LOCALITY.—Rockport, Aransas County, Texas.

RANGE.—Coastal plain and islands of Texas between Matagorda and Nueces Bays.

†***Geomys breviceps llanensis** Bailey.

1905. *Geomys breviceps llanensis* BAILEY, North Amer. Fauna, No. 25, p. 129. October 24, 1905.

TYPE LOCALITY.—Llano, Llano County, Texas.

†***Geomys texensis** Merriam.

1895. *Geomys texensis* MERRIAM, North Amer. Fauna, No. 8, p. 137. January 31, 1895.

TYPE LOCALITY.—Mason, Mason County, Texas.

RANGE.—Mason County, central Texas, and probably thence southerly to the Rio Grande.

†***Geomys arenarius** Merriam.

1895. *Geomys arenarius* MERRIAM, North Amer. Fauna, No. 8, p. 139. January 31, 1895.

TYPE LOCALITY.—El Paso, El Paso County, Texas.

RANGE.—Valley of the upper Rio Grande, from El Paso, Texas, and Juarez, Chihuahua, north to Las Cruces, New Mexico, and west to Deming, New Mexico.

†***Geomys personatus personatus** True.

1889. *Geomys personatus* TRUE, Proc. U. S. Nat. Mus., vol. 11 (1888), p. 159. January 5, 1889.

TYPE LOCALITY.—Padre Island, Cameron County, Texas.

RANGE.—The Tamaulipan fauna of Texas, comprising Padre Island and the adjacent mainland southwesterly to Carrizo on the Rio Grande.

†***Geomys personatus fallax** Merriam.

1895. *Geomys personatus fallax* MERRIAM, North Amer. Fauna, No. 8, p. 144. January 31, 1895.

TYPE LOCALITY.—South side of Nueces Bay, Cameron County, Texas.

RANGE.—South shore of Nueces Bay, and lower Nueces River, Texas.

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Genus PAPPOGEOMYS Merriam.[1]

1895. *Pappogeomys* MERRIAM, North Amer. Fauna, No. 8, p. 145. January 31, 1895. Type, *Geomys bulleri* THOMAS.

***Pappogeomys bulleri** (Thomas).

1892. *Geomys bulleri* THOMAS, Ann. and Mag. Nat. Hist., ser. 6, vol. 10, p. 196. August, 1892.

†1892. *Geomys nelsoni* MERRIAM, Proc. Biol. Soc. Washington, vol. 7, p. 164. September 29, 1892. (North slope of Sierra Nevada of Colima, State of Jalisco, Mexico. Altitude, 6,500 feet.)

1895. *Pappogeomys bulleri* MERRIAM, North Amer. Fauna, No. 8, p. 147. January 31, 1895.

TYPE LOCALITY.—Near Talpa, west slope of Sierra de Mascota, State of Jalisco, Mexico. Altitude, 8,500 feet.

RANGE.—Lower slopes of Sierra Nevada de Colima and Sierra de Mascota, Jalisco, Mexico.

†*Pappogeomys albinasus Merriam.

1895. *Pappogeomys albinasus* MERRIAM, North Amer. Fauna, No. 8, p. 149. January 31, 1895.

TYPE LOCALITY.—Atemajac, a suburb of Guadalajara, State of Jalisco, Mexico.

RANGE.—The plain of Guadalajara.

Genus CRATOGEOMYS Merriam.[2]

1895. *Cratogeomys* MERRIAM, North Amer. Fauna, No. 8, p. 150. January 31, 1895. Type, *Geomys merriami* THOMAS.

***Cratogeomys merriami** (Thomas).

1893. *Geomys merriami* THOMAS, Ann. and Mag. Nat. Hist., ser. 6, vol. 12, p. 271. October, 1893.

1895. *Cratogeomys merriami* MERRIAM, North Amer. Fauna, No. 8, p. 152. January 31, 1895.

TYPE LOCALITY.—"Southern Mexico," probably in the Valley of Mexico.

RANGE.—South end of the Valley of Mexico and adjacent mountain slopes from just below the lower edge of lower pine belt up to an altitude of 10,000 or 11,000 feet; east to Atlixco, Puebla, north to Irolo, Hidalgo, and west to Lerma in the Toluca Valley.

†*Cratogeomys perotensis Merriam.

1895. *Cratogeomys perotensis* MERRIAM, North Amer. Fauna, No. 8, p. 154. January 31, 1895.

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[1] Revised by Merriam, North Amer. Fauna, No. 8, pp. 145–149, January 31, 1895.

[2] Revised by Merriam, North Amer. Fauna, No. 8, pp. 150–162, January 31, 1895.

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Cratogeomys perotensis—Continued.

TYPE LOCALITY.—Cofre de Perote, State of Vera Cruz, Mexico. Altitude, 9,500 feet.

RANGE.—West and higher slopes of the Cofre de Perote, which are wooded.

†*Cratogeomys estor Merriam.

1895. *Cratogeomys estor* MERRIAM, North Amer. Fauna, No. 8, p. 155. January 31, 1895.

TYPE LOCALITY.—Las Vigas, State of Vera Cruz, Mexico. Altitude, 8,000 feet.

RANGE.—The pine-covered hills and flats forming the extreme northeastern foothills of the Cofre de Perote, and also the belt of pine forest connecting the timber of the mountain with the wooded hills of the north.

†*Cratogeomys oreocetes Merriam.

1895. *Cratogeomys oreocetes* MERRIAM, North Amer. Fauna, No. 8, p. 156. January 31, 1895.

TYPE LOCALITY.—Mount Popocatepetl, State of Mexico, Mexico. Altitude, 11,500 feet.

RANGE.—The boreal higher slopes of Mount Popocatepetl (above 11,000 feet).

†*Cratogeomys peregrinus Merriam.

1895. *Cratogeomys peregrinus* MERRIAM, North Amer. Fauna, No. 8, p. 158. January 31, 1895.

TYPE LOCALITY.—Mount Iztaccihuatl, State of Mexico, Mexico. Altitude, 11,500 feet.

RANGE.—The boreal higher slopes of Mount Iztaccihuatl (above 11,500 feet).

†*Cratogeomys castanops castanops (Baird).

1852. *Pseudostoma castanops* BAIRD, Report Stansbury's Exped. to Great Salt Lake, p. 313. June, 1852.

1885. *Geomys castanops* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 599. 1885.

1895. *Cratogeomys castanops* MERRIAM, North Amer. Fauna, No. 8, p. 159. January 31, 1895.

TYPE LOCALITY.—"Prairie road to Bent's Fort," near the present town of Las Animas, Bent County, Colorado, on the Arkansas River.

RANGE.—Isolated areas on the Great Plains from the Arkansas River in Colorado, southward through eastern New Mexico (west to Albuquerque) and western Texas to Santa Rosalia, Chihuahua, and Jaral, Coahuila.

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†*Cratogeomys castanops goldmani Merriam.

1895. *Cratogeomys castanops goldmani* MERRIAM, North Amer. Fauna, No. 8, p. 160. January 31, 1895.

TYPE LOCALITY.—Cañitas, State of Zacatecas, Mexico.

†*Cratogeomys fulvescens Merriam.

1895. *Cratogeomys fulvescens* MERRIAM, North Amer. Fauna, No. 8, p. 161. January 31, 1895.

TYPE LOCALITY.—Chalchicomula, State of Puebla, Mexico.

Genus PLATYGEOMYS Merriam.[1]

1895. *Platygeomys* MERRIAM, North Amer. Fauna, No. 8, p. 162. January 31, 1895. Type, *Geomys gymnurus* MERRIAM.

†*Platygeomys gymnurus (Merriam).

1892. *Geomys gymnurus* MERRIAM, Proc. Biol. Soc. Washington, vol. 7, p. 166. September 29, 1892.

1895. *Platygeomys gymnurus* MERRIAM, North Amer. Fauna, No. 8, p. 164. January 31, 1895.

TYPE LOCALITY.—Zapotlan, State of Jalisco, Mexico.

RANGE.—Valley of Zapotlan and adjacent slopes of the Sierra Nevada de Colima, Jalisco, and the upper edge of the plain of Colima, Mexico.

†*Platygeomys neglectus Merriam.

1902. *Platygeomys neglectus* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 68. March 22, 1902.

TYPE LOCALITY.—Cerro de la Calentura, about 8 miles northwest of Pinal de Amoles, State of Queretaro, Mexico. Altitude, 9,000 feet.

†*Platygeomys tylorhinus tylorhinus Merriam.

1895. *Platygeomys tylorhinus* MERRIAM, North Amer. Fauna, No. 8, p. 167. January 31, 1895.

TYPE LOCALITY.—Tula, State of Hidalgo, Mexico.

RANGE.—Tula, Hidalgo, and thence southwesterly along the north slope of the Sierra Madre to the vicinity of Patzcuaro, Michoacan.

†*Platygeomys tylorhinus angustirostris Merriam.

1903. *Platygeomys tylorhinus angustirostris* MERRIAM, Proc. Biol. Soc. Washington, vol. 16, p. 81. May 29, 1903.

TYPE LOCALITY.—Patamban, Michoacan, Mexico.

†*Platygeomys planiceps Merriam.

1895. *Platygeomys planiceps* MERRIAM, North Amer. Fauna, No. 8, p. 168. January 31, 1895.

[1] Revised by Merriam, North Amer. Fauna, No. 8, pp. 162–171, January 31, 1895.

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Platygeomys planiceps—Continued.

TYPE LOCALITY.—North Slope Volcano of Toluca, State of Mexico, Mexico.

RANGE.—Northern and eastern slopes of the volcano of Toluca and adjacent part of the valley to the city of Toluca, from an altitude of 8,600 feet up to the vicinity of timber line.

†***Platygeomys fumosus** (Merriam).

1892. *Geomys fumosus* MERRIAM, Proc. Biol. Soc. Washington, vol. 7, p. 165. September 29, 1892.

1895. *Platygeomys fumosus* MERRIAM, North Amer. Fauna, No. 8, p. 170. January 31, 1895.

TYPE LOCALITY.—Colima City, State of Colima, Mexico.

RANGE.—Plain of Colima, Mexico (altitude 1,500 to 2,000 feet).

Genus ORTHOGEOMYS Merriam.[1]

1895. *Orthogeomys* MERRIAM, North Amer. Fauna, No. 8, p. 172. January 31, 1895. Type, *Geomys scalops* THOMAS.

Orthogeomys cuniculus Elliot.

1905. *Orthogeomys cuniculus* ELLIOT, Proc. Biol. Soc. Washington, vol. 18, p. 234. December 9, 1905.

TYPE LOCALITY.—Yautepec, Oaxaca, Mexico.

***Orthogeomys scalops** (Thomas).

1894. *Geomys scalops* THOMAS, Ann. and Mag. Nat. Hist., ser. 6, vol. 13, p. 437. May, 1894.

1895. *Orthogeomys scalops* MERRIAM, North Amer. Fauna, No. 8, p. 174. January 31, 1895.

TYPE LOCALITY.—Tehuantepec, State of Oaxaca, Mexico.

RANGE.—Extreme southern Mexico, in State of Oaxaca, and probably adjacent part of Chiapas.

***Orthogeomys grandis** (Thomas).

1893. *Geomys grandis* THOMAS, Ann. and Mag. Nat. Hist., ser. 6, vol. 12, p. 270. October, 1893.

1895. *Orthogeomys grandis* MERRIAM, North Amer. Fauna, No. 8, p. 175. January 31, 1895.

TYPE LOCALITY.—Dueñas, Guatemala.

RANGE.—Highlands of Guatemala.

†***Orthogeomys nelsoni** Merriam.

1895. *Orthogeomys nelsoni* MERRIAM, North Amer. Fauna, No. 8, p. 176. January 31, 1895.

TYPE LOCALITY.—Mount Zempoaltepec, State of Oaxaca, Mexico. Altitude, 8,000 feet.

RANGE.—Mount Zempoaltepec, in the State of Oaxaca, Mexico, and the adjacent region, including Comaltepec and Totontepec.

[1] Revised by Merriam, North Amer. Fauna, No. 8, pp. 172–179, January 31, 1895.

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†*Orthogeomys latifrons Merriam.

1895. *Orthogeomys latifrons* MERRIAM, North Amer. Fauna, No. 8, p. 178. January 31, 1895.

TYPE LOCALITY.—Guatemala; exact locality unknown.

Genus HETEROGEOMYS Merriam.[1]

1895. *Heterogeomys* MERRIAM, North Amer. Fauna, No. 8, p. 179. January 31, 1895. Type, *Geomys hispidus* LECONTE.

*Heterogeomys hispidus (LeConte).

1852. *Geomys hispidus* LECONTE, Proc. Acad. Nat. Sci. Philadelphia, vol. 6, p. 158.

1885. *Geomys hispidus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 599. 1885.

1895. *Heterogeomys hispidus* MERRIAM, North Amer. Fauna, No. 8, p. 181. January 31, 1895.

TYPE LOCALITY.—Near Jalapa, State of Vera Cruz, Mexico.

RANGE.—The "Tierra Templada," or middle belt along the basal slope of the table-land, in the State of Vera Cruz, Mexico, between the altitudes of 4,000 and 4,500 feet.

Heterogeomys lanius Elliot.

1905. *Heterogeomys lanius* ELLIOT, Proc. Biol. Soc. Washington, vol. 18, p. 235. December 9, 1905.

TYPE LOCALITY.—Xuchil, Vera Cruz, Mexico.

†*Heterogeomys torridus Merriam.

1895. *Heterogeomys torridus* MERRIAM, North Amer. Fauna, No. 8, p. 183. January 31, 1895.

TYPE LOCALITY.—Chichicaxtle, State of Vera Cruz, Mexico.

RANGE.—Lowlands of Vera Cruz, from Chichicaxtle and Motzorongo to Catemaco, and thence into Guatemala; penetrating the interior to Reyes, Oaxaca, and Guatemala City, Guatemala.

Genus MACROGEOMYS Merriam.[2]

1895. *Macrogeomys* MERRIAM, North Amer. Fauna, No. 8, p. 185. January 31, 1895. Type, *Geomys heterodus* PETERS.

*Macrogeomys heterodus (Peters).

1865. *Geomys heterodus* PETERS, Monatsber. k. preuss. Akad. Wissensch. Berlin, 1864, p. 177. 1865.

1895. *Macrogeomys heterodus* MERRIAM, North Amer. Fauna, No. 8, p. 186. January 31, 1895.

TYPE LOCALITY.—Costa Rica; exact locality unknown.

RANGE.—The Irazú range and perhaps other parts of Costa Rica.

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[1] Revised by Merriam, North Amer. Fauna, No. 8, pp. 179–185, January 31, 1895.

[2] Revised by Merriam, North Amer. Fauna, No. 8, pp. 185–195, January 31, 1895.

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†*Macrogeomys dolichocephalus Merriam.

1895. *Macrogeomys dolichocephalus* MERRIAM, North Amer. Fauna, No. 8, p. 189. January 31, 1895.

TYPE LOCALITY.—San José, Costa Rica.

Macrogeomys cavator Bangs.

1902. *Macrogeomys cavator* BANGS, Bull. Mus. Comp. Zool., vol. 39, p. 42. April, 1902.

TYPE LOCALITY.—Boquete, Chiriqui, Panama. Altitude, 4,800 feet.

Macrogeomys pansa Bangs.

1902. *Macrogeomys pansa* BANGS, Bull. Mus. Comp. Zool., vol. 39, p. 44. April, 1902.

TYPE LOCALITY.—Bogava, Chiriqui, Panama. Altitude, 600 feet.

†*Macrogeomys costaricensis Merriam.

1895. *Macrogeomys costaricensis* MERRIAM, North Amer. Fauna, No. 8, p. 192. January 31, 1895.

TYPE LOCALITY.—Pacuare, Costa Rica.

Macrogeomys cherriei (Allen).

1893. *Geomys cherriei* ALLEN, Bull. Amer. Mus. Nat. Hist. vol. 5, p. 337. December 16, 1893.

1895. *Macrogeomys cherriei* MERRIAM, North Amer. Fauna, No. 8, p. 194. January 31, 1895.

TYPE LOCALITY.—Santa Clara, Costa Rica.

Macrogeomys matagalpæ Allen.

1910. *Macrogeomys matagalpæ* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 28, p. 97. April 30, 1910.

TYPE LOCALITY.—Pena Blanca, Matagalpa, Nicaragua.

Genus ZYGOGEOMYS Merriam.[1]

1895. *Zygogeomys* MERRIAM, North Amer. Fauna, No. 8, p. 195. January 31, 1895. Type, *Zygogeomys trichopus* MERRIAM.

†*Zygogeomys trichopus Merriam.

1895. *Zygogeomys trichopus* MERRIAM, North Amer. Fauna, No. 8, p. 196. January 31, 1895.

TYPE LOCALITY.—Nahuatzin, State of Michoacan, Mexico.

RANGE.—The Sierra Madre of Michoacan, from Patzcuaro to Nahuatzin; strictly limited to the pine zone, between the altitudes of 6,800 and 9,500 feet.

[1] Revised by Merriam, North Amer. Fauna, No. 8, pp. 195–198, January 31, 1895.

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Family HETEROMYIDÆ.

Subfamily HETEROMYINÆ.

Genus HETEROMYS Desmarest.[1]

1817. *Heteromys* DESMAREST, Nouv. Dict. Hist. Nat., vol. 14, p. 180. Type, *Mus anomalus* THOMPSON.

Subgenus HETEROMYS Desmarest.

***Heteromys desmarestianus desmarestianus** Gray.

1868. *Heteromys desmarestianus* GRAY, Proc. Zool. Soc. London, p. 204.

1911. *Heteromys desmarestianus* GOLDMAN, North Amer. Fauna, No. 34, p. 20. September 7, 1911.

TYPE LOCALITY.—Coban, Guatemala.

RANGE.—Mountainous portions of western Guatemala, also northern Chiapas and southern Tabasco, Mexico. Humid tropical zone.

†*Heteromys desmarestianus griseus (Merriam).

1902. *Heteromys griseus* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 42. March 5, 1902.

1911. *Heteromys desmarestianus griseus* GOLDMAN, North Amer. Fauna, No. 34, p. 22. September 7, 1911.

TYPE LOCALITY.—Mountains near Tonala, Chiapas, Mexico.

RANGE.—Mountains of western Chiapas and along the Isthmus of Tehuantepec in eastern Oaxaca. Humid tropical zone.

†*Heteromys zonalis Goldman.

1912. *Heteromys zonalis* GOLDMAN, Smiths. Misc. Coll., vol. 56, No. 36, p. 9. February 19, 1912.

TYPE LOCALITY.—Rio Indio, near Gatun, Canal Zone, Panama.

***Heteromys longicaudatus** Gray.

1868. *Heteromys longicaudatus* GRAY, Proc. Zool. Soc. London, p. 204.

1911. *Heteromys longicaudatus* GOLDMAN, North Amer. Fauna, No. 34, p. 23. September 7, 1911.

TYPE LOCALITY.—"Mexico."

RANGE.—Low coastal plains of Tabasco, Mexico, and probably adjacent portions of Chiapas, southwestern Campeche, and northwestern Guatemala. Humid tropical zone.

†*Heteromys goldmani Merriam.

1902. *Heteromys goldmani* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 41. March 5, 1902.

TYPE LOCALITY.—Chicharras, Chiapas, Mexico.

RANGE.—Heavily forested Pacific slope of Sierra Madre in extreme southern Chiapas, Mexico, and probably adjacent portions of Guatemala. Humid tropical zone.

[1] Revised by Goldman, North Amer. Fauna, No. 34, pp. 14–32, September 7, 1911.

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†*Heteromys lepturus (Merriam).

1902. *Heteromys goldmani lepturus* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 42. March 5, 1902.

1911. *Heteromys lepturus* GOLDMAN, North Amer. Fauna, No. 34, p. 25. September 7, 1911.

TYPE LOCALITY.—Mountains near Santo Domingo (a few miles west of Guichicovi), Oaxaca, Mexico.

RANGE.—Humid heavily forested mountain slopes and coastal plains in northeastern Oaxaca and southeastern Vera Cruz, Mexico. Humid tropical zone.

†*Heteromys temporalis Goldman.

1911. *Heteromys temporalis* GOLDMAN, North Amer. Fauna, No. 34, p. 26. September 7, 1911.

TYPE LOCALITY.—Motzorongo, Vera Cruz, Mexico.

RANGE.—Heavily forested eastern basal slopes of mountains in central Vera Cruz, Mexico. Humid tropical zone.

*Heteromys repens Bangs.

1902. *Heteromys repens* BANGS, Bull. Mus. Comp. Zool., vol. 39, p. 45. April, 1902.

TYPE LOCALITY.—Boquete, southern slope of Volcan de Chiriqui, Panama. Altitude 4,000 feet.

RANGE.—Panama and probably also in Costa Rica.

†*Heteromys panamensis Goldman.

1912. *Heteromys panamensis* GOLDMAN, Smiths. Misc. Coll., vol. 56, No. 36, p. 9. February 19, 1912.

TYPE LOCALITY.—Cerro Azul, near headwaters of the Chagres River, Panama. Altitude, 2,800 feet.

Heteromys fuscatus Allen.

1908. *Heteromys fuscatus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 24, p. 652. October 13, 1908.

TYPE LOCALITY.—Tuma, Nicaragua.

RANGE.—Central Nicaragua; limits of range unknown.

*Heteromys gaumeri Allen and Chapman.

1897. *Heteromys gaumeri* ALLEN and CHAPMAN, Bull. Amer. Mus. Nat. Hist., vol. 9, p. 9. February, 1897.

TYPE LOCALITY.—Chichenitza, Yucatan, Mexico.

RANGE.—Yucatan and northern parts of Campeche and Quintana Roo, Mexico. Arid and humid tropical zones.

Subgenus XYLOMYS Merriam.

1902. *Xylomys* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 43. March 5, 1902. Type, *Heteromys nelsoni* MERRIAM.

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†*Heteromys nelsoni Merriam.

1902. *Heteromys* (*Xylomys*) *nelsoni* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 43. March 5, 1902.

TYPE LOCALITY.—Pinabete, Chiapas, Mexico. Altitude, 8,200 feet.

RANGE.—Humid, heavily forested Pacific slopes of Sierra Madre in southern Chiapas, Mexico, and doubtless adjacent portions of Guatemala.

Genus LIOMYS Merriam.[1]

1902. *Liomys* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 44. March 5, 1902. Type, *Heteromys alleni* COUES.

*Liomys pictus pictus (Thomas,.

1893. *Heteromys pictus* THOMAS, Ann. and Mag. Nat. Hist., ser. 6, vol. 12, p. 233. September, 1893.

1897. *Heteromys hispidus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 9, p. 56. March 15, 1897. (Compostela, Tepic, Mexico.)

1911. *Liomys pictus* GOLDMAN, North Amer. Fauna, No. 34, p. 33. September 7, 1911.

TYPE LOCALITY.—Mineral San Sebastian, Jalisco, Mexico. Altitude, 4,300 feet.

RANGE.—Coastal plains and basal mountain slopes in western Jalisco and Colima and probably western Michoacan. Arid tropical zone.

*Liomys pictus escuinapæ (Allen).

1906. *Heteromys pictus escuinapæ* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 22, p. 211. July 25, 1906.

1911. *Liomys pictus escuinapæ* GOLDMAN, North Amer. Fauna, No. 34, p. 35. September 3, 1911.

TYPE LOCALITY.—Escuinapa, Sinaloa, Mexico.

RANGE.—Coastal plains and Pacific slopes of Sierra Madre from southern Sinaloa southward, passing into typical *pictus* in southern Tepic and northwestern Jalisco. Arid tropical and lower Sonoran zones.

†*Liomys pictus sonoranus (Merriam).

1902. *Liomys sonorana* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 47. March 5, 1902.

1911. *Liomys pictus sonorana* GOLDMAN, North Amer. Fauna, No. 34, p. 36. September 7, 1911.

TYPE LOCALITY.—Alamos, Sonora, Mexico.

RANGE.—Arid coastal plains and basal slopes of Sierra Madre from southern Sonora to southern Sinola. Mainly overlapping portions of lower Sonoran and arid tropical zones.

[1] Revised by Goldman, North Amer. Fauna, No. 34, pp. 32-63, September 7, 1911.

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†*Liomys pictus plantinarensis (Merriam).

1902. *Liomys plantinarensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 46. March 5, 1902.

1911. *Liomys pictus plantinarensis* GOLDMAN, North Amer. Fauna, No. 34, p. 37. September 7, 1911.

TYPE LOCALITY.—Plantinar, Jalisco, Mexico.

RANGE.—Interior valleys and deep canyons along the western slopes of the plateau region in western and southern Jalisco and northwestern Michoacan. Mainly arid tropical zone.

†*Liomys pictus parviceps (Goldman).

1904. *Liomys parviceps* GOLDMAN, Proc. Biol. Soc. Washington, vol. 17, p. 82. March 21, 1904.

1911. *Liomys pictus parviceps* GOLDMAN, North Amer. Fauna, No. 34, p. 38. September 7, 1911.

TYPE LOCALITY.—La Salada, 40 miles south of Uruapan, Michoacan, Mexico.

RANGE.—Arid valley of the Balsas River in southern Micnoacan and northern and extreme western Guerrero, Mexico. Arid tropical zone.

†*Liomys pictus rostratus Merriam.

1902. *Liomys pictus rostratus* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 46. March 5, 1902.

TYPE LOCALITY.—Near Ometepec, Guerrero, Mexico.

RANGE.—Arid coastal plains and basal mountain slopes in southeastern Guerrero, Mexico. Arid tropical zone.

†*Liomys pictus phæura (Merriam).

1902. *Liomys phæura* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 48. March 5, 1902.

1911. *Liomys pictus phæurus* GOLDMAN, North Amer. Fauna, No. 34, p. 40. September 7, 1911.

TYPE LOCALITY.—Pinotepa, Oaxaca, Mexico.

RANGE.—Arid coastal region of southwestern Oaxaca. Arid tropical zone.

†*Liomys pictus isthmius Merriam.

1902. *Liomys pictus isthmius* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 46. March 5, 1902.

TYPE LOCALITY.—Tehuantepec, Oaxaca, Mexico.

RANGE.—Arid coastal plains and interior valleys on the southern side of the Isthmus of Tehuantepec in southeastern Oaxaca and western Chiapas and thence eastward through the valley of the Chiapas River to Nenton, Guatemala. Arid tropical zone.

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†*Liomys pictus veræcrucis (Merriam.)

1902. *Liomys veræcrucis* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 47. March 5, 1902.

†1902. *Liomys orbitalis* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 48. March 5, 1902. (Catemaco, Vera Cruz, Mexico.)

1911. *Liomys pictus veræcrucis* GOLDMAN. North Amer. Fauna, No. 34, p. 42. September 7, 1911.

TYPE LOCALITY.—San Andres Tuxtla, Vera Cruz, Mexico.

RANGE.—Humid northern slopes of the Isthmus of Tehuantepec and coastal plains in southern Vera Cruz, Mexico. Humid tropical zone.

†*Liomys pictus obscurus (Merriam).

1902. *Liomys obscurus* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 48. March 5, 1902.

1903. *Heteromys paralius* ELLIOT, Field Columb. Mus., publ. 80, zool. ser., vol. 3, p. 233. June, 1903. (San Carlos, Vera Cruz, Mexico.)

1911. *Liomys pictus obscurus* GOLDMAN, North Amer. Fauna, No. 34, p. 44. September 7, 1911.

TYPE LOCALITY.—Carrizal, Vera Cruz, Mexico.

RANGE.—Arid coastal plains in south-central Vera Cruz, Mexico. Arid tropical zone.

†*Liomys annectens (Merriam).

1902. *Heteromys annectens* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 43. March 5, 1902.

1911. *Liomys annectens* GOLDMAN, North Amer. Fauna, No. 34, p. 45. September 7, 1911.

TYPE LOCALITY.—Pluma, Oaxaca, Mexico.

RANGE.—Pacific slopes of Sierra Madre in Oaxaca and Guerrero, Mexico. Humid tropical zone.

†*Liomys crispus crispus Merriam.

1902. *Liomys crispus* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 49. March 5, 1902.

TYPE LOCALITY.—Tonala, Chiapas, Mexico.

RANGE.—Coastal plains and lower foothills of the Sierra Madre in western Chiapas, Mexico. Arid tropical zone.

†*Liomys crispus setosus Merriam.

1902. *Liomys crispus setosus* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 49. March 5, 1902.

TYPE LOCALITY.—Huehuetan, Chiapas, Mexico.

RANGE.—Forested coastal plains and basal slopes of the Sierra Madre in southern Chiapas, Mexico. Humid tropical zone.

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Liomys vulcani (Allen).

1908. *Heteromys vulcani* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 24, p. 652. October 13, 1908.

1911. *Liomys vulcani* GOLDMAN, North Amer. Fauna, No. 34, p. 48. September 7, 1911.

TYPE LOCALITY.—Volcan de Chinandega (altitude about 4,000 feet), Nicaragua.

RANGE.—Vicinity of the type locality in the mountains of extreme western Nicaragua.

†***Liomys heterothrix** Merriam.

1902. *Liomys heterothrix* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 50. March 5, 1902.

TYPE LOCALITY.—San Pedro Sula, Honduras.

RANGE.—Known only from the type locality, on the Chamelicon River, near the coast of northwestern Honduras.

Liomys salvini salvini (Thomas).

1893. *Heteromys salvini* THOMAS, Ann. and Mag. Nat. Hist., ser. 6, vol. 11, p. 331. April, 1893.

1911. *Liomys salvini* GOLDMAN, North Amer. Fauna, No. 34, p. 50. September 7, 1911.

TYPE LOCALITY.—Dueñas, Guatemala.

RANGE.—Vicinity of the type locality.

Liomys salvini nigrescens (Thomas).

1893. *Heteromys salvini nigrescens* THOMAS, Ann. and Mag. Nat. Hist., ser. 6, vol. 12, p. 234. September, 1893.

1911. *Liomys salvini nigrescens* GOLDMAN, North Amer. Fauna, No. 34, p. 51. September 7, 1911.

TYPE LOCALITY.—Costa Rica.

***Liomys adspersus** (Peters).

1874. *Hetromys adspersus* PETERS, Monatsber. k. preuss. Akad. Wissensch., Berlin, p. 356. May, 1874.

1911. *Liomys adspersus* GOLDMAN, North Amer. Fauna, No. 34, p. 51. September 7, 1911.

TYPE LOCALITY.—"Panama."

RANGE.—Unknown.

***Liomys irroratus irroratus** (Gray).

1868. *Heteromys irroratus* GRAY, Proc. Zool. Soc. London, p. 205.

1868. *Heteromys albolimbatus* GRAY, Proc. Zool. Soc. London, p. 205. (La Parada, Oaxaca, Mexico.)

1911. *Liomys irroratus* GOLDMAN, North Amer. Fauna, No. 34, p. 53. September 7, 1911.

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Liomys irroratus irroratus—Continued.

TYPE LOCALITY.—State of Oaxaca, Mexico.

RANGE.—High interior plains and lower mountain slopes in central and eastern Oaxaca, Mexico. Lower Sonoran and humid tropical zones.

†***Liomys irroratus torridus** (Merriam.)

1902. *Liomys torridus* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 45. March 5, 1902.

1903. *Heteromys exiguus* ELLIOT, Field Columb. Mus., publ. 71, zool. ser., vol. 3, p. 146. February, 1903. (Puenta de Ixtla, Morelos, Mexico.)

1911. *Liomys irroratus torridus* GOLDMAN, North Amer. Fauna, No. 34, p. 55. September 7, 1911.

TYPE LOCALITY.—Cuicatlan, Oaxaca, Mexico.

RANGE—Arid interior plains and valleys from northern Oaxaca and southern Puebla west through Morelos and eastern Guerrero to Chilpancingo. Arid tropical and lower part of lower Sonoran zones.

†***Liomys irroratus minor** (Merriam).

1902. *Liomys torridus minor* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 45. March 5, 1902.

1911. *Liomys irroratus minor* GOLDMAN, North Amer. Fauna, No. 34, p. 56. September 7, 1911.

TYPE LOCALITY.—Huajuapam, Oaxaca, Mexico.

RANGE.—Elevated plains of northwestern Oaxaca and northeastern Guerrero, Mexico. Arid tropical and lower Sonoran zones.

***Liomys irroratus alleni** (Coues).

1881. *Heteromys alleni* COUES, Bull. Mus. Comp. Zool., vol. 8, p. 187. 1881.

1911. *Liomys irroratus alleni* GOLDMAN, North Amer. Fauna, No. 34, p. 56. September 7, 1911.

TYPE LOCALITY.—Rio Verde, San Luis Potosi, Mexico.

RANGE.—Eastern and southern portions of Mexican table-land region from Monterey, Nuevo Leon, to the Valley of Mexico and as far west as Chicalote, Aguas Calientes, and Ocotlan, Jalisco. Upper and lower Sonoran zones.

†***Liomys irroratus pretiosus** Goldman.

1911. *Liomys irroratus pretiosus* GOLDMAN, North Amer. Fauna, No. 34, p. 58. September 7, 1911.

TYPE LOCALITY.—Metlaltoyuca, Puebla, Mexico.

RANGE.—Humid basal mountain slopes in extreme eastern San Luis Potosi, northern Queretaro, eastern Puebla, and northern Vera Cruz, Mexico. Humid tropical zone.

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†*Liomys irroratus texensis (Merriam).

1902. *Liomys texensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 44. March 5, 1902.

1911. *Liomys irroratus texensis* GOLDMAN, North Amer. Fauna, No. 34, p. 59. September 7, 1911.

TYPE LOCALITY.—Brownsville, Cameron County, Texas.

RANGE.—Low plains from southern Texas to southern Tamaulipas, west in eastern Nuevo Leon to China. Lower Sonoran zone.

†*Liomys irroratus canus (Merriam).

1902. *Liomys canus* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 44. March 5, 1902.

1911. *Liomys irroratus canus* GOLDMAN, North Amer. Fauna, No. 34, p. 60. September 7, 1911.

TYPE LOCALITY.—Near Parral, Chihuahua, Mexico.

RANGE.—High plains along the eastern base of the Sierra Madre from southern Chihuahua to southern Zacatecas. Upper and lower Sonoran zones.

*Liomys irroratus jalicensis (Allen).

1906. *Heteromys jalicensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 22, p. 251. July 25, 1906.

1911. *Liomys irroratus jalicensis* GOLDMAN, North Amer. Fauna, No. 34, p. 60. September 7, 1911.

TYPE LOCALITY.—Las Canoas, about 20 miles west of Zapotlan, Jalisco, Mexico. Altitude, 7,000 feet.

RANGE.—Table-land region of Jalisco and northwestern Michoacan. Mainly lower Sonoran zone.

*Liomys bulleri (Thomas).

1893. *Heteromys bulleri* THOMAS, Ann. and Mag. Nat. Hist., ser. 6, vol. 11, p. 330. April, 1893.

1911. *Liomys bulleri* GOLDMAN, North Amer. Fauna, No. 34, p. 61. September 7, 1911.

TYPE LOCALITY.—La Laguna, Sierra de Juanacatlan, Jalisco, Mexico.

RANGE.—Known only from the type locality in the Sierra de Juanacatlan, Jalisco, Mexico. Upper Sonoran zone.

†*Liomys guerrerensis Goldman.

1911. *Liomys guerrerensis* GOLDMAN, North Amer. Fauna, No. 34, p. 62. September 7, 1911.

TYPE LOCALITY.—Omilteme, Guerrero, Mexico.

RANGE.—Humid heavily forested Pacific slopes of the Sierra Madre in the vicinity of the type locality. Humid tropical zone.

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Genus PEROGNATHUS Wied.[1]

1839. *Perognathus* WIED, Nova acta phys. med. acad. caes. Leop.-Carol., vol. 19, pt. 1, p. 368. Type, *Perognathus fasciatus* WIED.

Subgenus PEROGNATHUS Wied.

***Perognathus fasciatus fasciatus** Wied.

1839. *Perognathus fasciatus* WIED, Nova acta phys. med. acad. caes. Leop.-Carol., vol. 19, pt. 1, p. 369.

1885. *Perognathus fasciatus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 599. 1885. (Part.)

TYPE LOCALITY.—Upper Missouri River near its junction with the Yellowstone, northwestern North Dakota.

RANGE.—Upper Sonoran and transition zones of eastern Montana and Wyoming, east into the adjoining parts of North and South Dakota.

***Perognathus fasciatus infraluteus** (Thomas).

1893. *Perognathus infraluteus* THOMAS, Ann. and Mag. Nat. Hist., ser. 6, vol. 11, p. 406. May, 1893.

1900. *Perognathus fasciatus infraluteus* OSGOOD, North Amer. Fauna, No. 18, p. 19. September 20, 1900.

TYPE LOCALITY.—Loveland, Larimer County, Colorado.

†*Perognathus fasciatus litus Cary (see page 401).

†*Perognathus flavescens flavescens (Merriam).

1889. *Perognathus fasciatus flavescens* MERRIAM, North Amer. Fauna, No. 1, p. 11. October 25, 1889.

1900. *Perognathus flavescens* OSGOOD, North Amer. Fauna, No. 18, p. 20. September 20, 1900.

TYPE LOCALITY.—Kennedy, Cherry County, Nebraska.

RANGE.—Upper austral plains of South Dakota, Nebraska, and Kansas; south possibly to northern Texas, and west to base of Rocky Mountains.

***Perognathus flavescens copei** (Rhoads).

1894. *Perognathus copei* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, 1893, p. 404. January 30, 1894.

1905. *Perognathus flavescens copei* BAILEY, North Amer. Fauna, No. 25, p. 143. October 24, 1905.

TYPE LOCALITY.—Near Mobeetie, Wheeler County, Texas.

†*Perognathus flavescens perniger Osgood.

1904. *Perognathus flavescens perniger* OSGOOD, Proc. Biol. Soc. Washington, vol. 17, p. 127. June 9, 1904.

TYPE LOCALITY.—Vermilion, Clay County, South Dakota.

[1] Revised by Merriam (North Amer. Fauna, No. 1, October 25, 1889) and Osgood (North Amer. Fauna, No. 18, September 20, 1900.)

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***Perognathus merriami merriami** Allen.

1892. *Perognathus merriami* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 4, p. 45. March 25, 1892.

1896. *Perognathus mearnsi* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 8, p. 237. November 21, 1896. (Watson's Ranch, 15 miles southwest of San Antonio, Bexar County, Texas.)

TYPE LOCALITY.—Brownsville, Cameron County, Texas.

RANGE.—Subtropical region of southern Texas and northeastern Mexico, and lower Sonoran of central Texas. The known range extends from Alta Mira, Tamaulipas, northward to Washburn, Texas, and from this point southwestward to the vicinity of Roswell, New Mexico; on the east it reaches San Antonio, and on the west follows up the Rio Grande as far as Comstock.

†*Perognathus merriami gilvus Osgood.

1900. *Perognathus merriami gilvus* OSGOOD, North Amer. Fauna, No. 18, p. 22. September 20, 1900.

TYPE LOCALITY.—Eddy, Eddy County, New Mexico.

RANGE.—Western Texas and southeastern New Mexico. Lower Sonoran zone.

†*Perognathus flavus flavus Baird.

1885. *Perognathus flavus* BAIRD, Proc. Acad. Nat. Sci. Philadelphia, vol. 7, p. 332.

1885. *Cricetodipus flavus* TRUE, Proc. U. S. Nat. Mus., vol. 7, (1884), p. 599. 1885. (Part.)

TYPE LOCALITY.—El Paso, El Paso County, Texas.

RANGE.—Upper and lower Sonoran zones from northeastern Colorado and western Nebraska to northern Mexico, extending westward into central Arizona and eastward to western Texas. In central Arizona its range meets that of the subspecies *bimaculatus* and in north-central Mexico it merges with that of *mexicanus*.

†*Perognathus flavus bimaculatus (Merriam).

1889. *Perognathus bimaculatus* MERRIAM, North Amer. Fauna, No. 1, p. 12. October 25, 1889.

1900. *Perognathus flavus bimaculatus* OSGOOD, North Amer. Fauna, No. 18, p. 24. September 20, 1900.

TYPE LOCALITY.—Fort Whipple, Yavapai County, Arizona.

RANGE.—Central and northeastern Arizona and southeastern Utah.

†*Perognathus flavus fuliginosus (Merriam).

1890. *Perognathus fuliginosus* MERRIAM, North Amer. Fauna, No. 3, p. 74. September 11, 1890.

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Perognathus flavus fulignosus—Continued.

1900. *Perognathus flavus fuliginosus* OSGOOD, North Amer. Fauna, No. 18, p. 25. September 20, 1900.

TYPE LOCALITY.—Cedar belt northeast of San Francisco Mountain, Coconino County, Arizona. Altitude, 7,000 feet.

RANGE.—Lava beds in the vicinity of San Francisco Mountain, Arizona.

†***Perognathus flavus mexicanus** Merriam.

1894. *Perognathus flavus mexicanus* MERRIAM, Proc. Acad. Nat. Sci. Philadelphia, p. 265. September 27, 1894.

TYPE LOCALITY.—Tlalpam, Federal District, Mexico.

RANGE.—Upper and lower Sonoran zones of the southern half of the table-land of Mexico.

†***Perognathus apache apache** Merriam.

1889. *Perognathus apache* MERRIAM, North Amer. Fauna, No. 1, p. 14. October 25, 1889.

TYPE LOCALITY.—Keam Canyon, Apache County, Arizona.

RANGE.—Eastern Arizona, western New Mexico, and southern Utah.

†***Perognathus apache melanotis** Osgood.

1900. *Perognathus apache melanotis* OSGOOD, North Amer. Fauna, No. 18, p. 27. September 20, 1900.

TYPE LOCALITY.—Casas Grandes, State of Chihuahua, Mexico.

RANGE.—Known only from the type locality.

†***Perognathus callistus** Osgood.

1900. *Perognathus callistus* OSGOOD, North Amer. Fauna, No. 18, p. 28. September 20, 1900.

TYPE LOCALITY.—Kinney Ranch, Green River Basin, near Bitter Creek, Sweetwater County, Wyoming.

RANGE.—Known only from the type locality and vicinity.

Perognathus elibatus Elliot.

1903. *Perognathus elibatus* ELLIOT, Field Columb. Mus., publ. 87, zool. ser., vol. 3, p. 252. December, 1903.

TYPE LOCALITY.—Mount Pinos, Los Angeles County, California.

†***Perognathus panamintinus panamintinus** (Merriam).

1894. *Perognathus longimembris panamintinus* MERRIAM, Proc. Acad. Nat. Sci. Philadelphia, p. 265. September 27, 1894.

1900. *Perognathus panamintinus* OSGOOD, North Amer. Fauna, No. 18, p. 28. September 20, 1900.

TYPE LOCALITY.—Perognathus Flat, Panamint Mountains, Inyo County, California. Altitude, 5,200 feet.

RANGE.—Panamint Mountains, California, and eastward through southern Nevada to St. George, Utah.

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†*Perognathus panamintinus arenicola Stephens.

1900. *Perognathus panamintinus arenicola* STEPHENS, Proc. Biol. Soc. Washington, vol. 13, p. 153. June 13, 1900.

TYPE LOCALITY.—San Felipe Narrows, San Diego County, California.

*Perognathus panamintinus bangsi (Mearns).

1898. *Perognathus longimembris bangsi* MEARNS, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 300. August 31, 1898.

1900. *Perognathus panamintinus bangsi* OSGOOD, North Amer Fauna, No. 18, p. 29. September 20, 1900.

TYPE LOCALITY.—Palm Springs, Colorado Desert, Riverside County, California.

RANGE.—Desert valleys of southern and southeastern California. Lower Sonoran zone.

†*Perognathus panamintinus brevinasus Osgood.

1900. *Perognathus panamintinus brevinasus* OSGOOD, North Amer. Fauna, No. 18, p. 30. September 20, 1900.

TYPE LOCALITY.—San Bernardino, San Bernardino County, California.

RANGE.—Known from a few scattered localities in extreme southwestern California. Upper Sonoran zone.

†*Perognathus bombycinus Osgood.

1907. *Perognathus bombycinus* OSGOOD, Proc. Biol. Soc. Washington, vol. 20, p. 19. February 23, 1907.

TYPE LOCALITY.—Yuma, Yuma County, Arizona.

†*Perognathus nevadensis Merriam.

1894. *Perognathus nevadensis* MERRIAM, Proc. Acad. Nat. Sci. Philadelphia, p. 264. September 27, 1894.

TYPE LOCALITY.—Halleck, East Humboldt Valley, Elko County, Nevada.

RANGE.—Upper Sonoran zone of central Nevada; northward to southern Oregon and northern Utah.

†*Perognathus pacificus Mearns.

1898. *Perognathus pacificus* MEARNS, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 299. August 31, 1900.

TYPE LOCALITY.—Mexican boundary monument No. 258, shore of Pacific Ocean, San Diego County, California.

RANGE.—Known only from the type locality.

†*Perognathus amplus Osgood.

1900. *Perognathus amplus* OSGOOD, North Amer. Fauna, No. 18, p. 32. September 20, 1900.

TYPE LOCALITY.—Fort Verde, Yavapai County, Arizona.

RANGE.—Known only from the type locality.

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†*Perognathus longimembris longimembris (Coues).

1875. *O[tognosis] longimembris* COUES, Proc. Acad. Nat. Sci. Philadelphia, p. 305. August 31, 1875.

1889. *Perognathus longimembris* MERRIAM, North Amer. Fauna, No. 1, p. 13. October 25, 1889.

†1889. *Perognathus inornatus* MERRIAM, North Amer. Fauna, No. 1, p. 15. October 25, 1889. (Fresno, Fresno County, California.)

TYPE LOCALITY.—Old Fort Tejon, in mountains south of Kern Lake, Kern County, California.

RANGE.—Sonoran zone of the San Joaquin Valley, California, and its immediate extensions.

*Perognathus longimembris neglectus Taylor.

1912. *Perognathus longimembris neglectus* TAYLOR, Univ. Calif. Publ. Zool., vol. 10, p. 155. May 21, 1912.

TYPE LOCALITY.—McKittrick, Kern County, California.

*Perognathus parvus parvus (Peale).

1848. *Cricetodipus parvus* PEALE, U. S. Explor. Exped., vol. 8, mamm. and ornith., pt. 1, p. 53.

1858. *Perognathus parvus* CASSIN, U. S. Explor. Exped., vol. 8, mamm. and ornith., pt. 2, p. 48.

1885. *Perognathus monticola* and *Cricetodipus parvus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 599. 1885.

TYPE LOCALITY.—Oregon; probably in neighborhood of The Dalles, Wasco County.

RANGE.—Valley of the Yakima River, Washington, and thence southward to central and southeastern Oregon. Upper Sonoran zone.

*Perognathus parvus mollipilosus (Coues).

1875. *P[erognathus] mollipilosus* COUES, Proc. Acad. Nat. Sci. Philadelphia, p. 296. August 31, 1875.

1900. *Perognathus parvus mollipilosus* OSGOOD, North Amer. Fauna, No. 18, p. 36. September 20, 1900.

TYPE LOCALITY.—Fort Crook, Shasta County, California.

RANGE.—Great Basin extension of northeastern California, north to Klamath Basin, Oregon. Upper Sonoran zone, except on Mount Shasta, where it ascends to the boreal.

†*Perognathus parvus olivaceus (Merriam).

1889. *Perognathus olivaceus* MERRIAM, North Amer. Fauna, No. 1, p. 15. October 25, 1889.

†1889. *Perognathus olivaceus amœnus* MERRIAM, North Amer. Fauna, No. 1, p. 16. October 25, 1889. (Nephi, Juab County, Utah.)

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Perognathus parvus olivaceus—Continued.

1900. *Perognathus parvus olivaceus* OSGOOD, North Amer. Fauna, No. 18, p. 37. September 20, 1900.

TYPE LOCALITY.—Kelton, near north end of Great Salt Lake, Boxelder County, Utah.

RANGE.—Upper Sonoran zone throughout the Great Basin, from northern Utah and southern Idaho southwest to Owen Valley, California, and west to southern Oregon and northeastern California.

†***Perognathus parvus magruderensis** Osgood.

1900. *Perognathus parvus magruderensis* OSGOOD, North Amer. Fauna, No. 18, p. 38. September 20, 1900.

TYPE LOCALITY.—Mount Magruder, Nevada, near boundary between Inyo County, California, and Esmeralda County, Nevada. Altitude, 8,000 feet.

RANGE.—Upper Sonoran and transition zones of the desert ranges of southern Nevada and adjoining portion of California.

Perognathus xanthonotus Grinnell.

1912. *Perognathus xanthonotus* GRINNELL, Proc. Biol. Soc. Washington, vol. 25, p. 128. July 31, 1912.

TYPE LOCALITY.—Freeman Canyon, east slope of Walker Pass, Kern County, California. Altitude, 4,900 feet.

***Perognathus alticola** Rhoads.

1894. *Perognathus alticolus* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, 1893, p. 412. January 30, 1894.

TYPE LOCALITY.—Squirrel Inn, San Bernardino Mountains, San Bernardino County, California.

RANGE.—Known only from the type locality.

***Perognathus lordi lordi** (Gray).

1868. *Abromys lordi* GRAY, Proc. Zool. Soc. London, p. 202.

1889. *Perognathus lordi* MERRIAM, North Amer. Fauna, No. 1, p. 28. October 25, 1889.

1894. *Perognathus lordi* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, 1893, p. 405. January 30, 1894.

TYPE LOCALITY.—Southern British Columbia, Canada.

RANGE.—Upper Sonoran and transition zones of the plains of the Columbia River, Washington, and suitable adjacent territory in southern British Columbia.

†***Perognathus lordi columbianus** (Merriam).

1894. *Perognathus columbianus* MERRIAM, Proc. Acad. Nat. Sci. Philadelphia, p. 263. September 27, 1894.

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Perognathus lordi columbianus—Continued.

1900. *Perognathus lordi columbianus* OSGOOD, North Amer. Fauna, No. 18, p. 40. September 20, 1900.

TYPE LOCALITY.—Pasco, Franklin County, Washington.

RANGE.—Vicinity of type locality.

†***Perognathus formosus** Merriam.

1889. *Perognathus formosus* MERRIAM, North Amer. Fauna, No. 1, p. 17. October 25, 1889.

TYPE LOCALITY.—St. George, Washington County, Utah.

RANGE.—Southwestern Utah, southern Nevada, and the adjoining portion of California. Lower Sonoran zone.

Perognathus mesembrinus Elliot.

1903. *Perognathus mesembrinus* ELLIOT, Field Columb. Mus., publ. 87, zool. ser., vol. 3, p. 251. December, 1903.

TYPE LOCALITY.—Palm Springs, Riverside County, California.

Subgenus CHÆTODIPUS Merriam.

1889. *Chætodipus* MERRIAM, North Amer. Fauna, No. 1, p. 5. October 25, 1889. Type, *Perognathus spinatus* MERRIAM.

†***Perognathus baileyi baileyi** Merriam.

1894. *Perognathus baileyi* MERRIAM, Proc. Acad. Nat. Sci. Philadelphia, p. 262. September 27, 1894.

TYPE LOCALITY.—Magdalena, State of Sonora, Mexico.

RANGE.—South central Arizona and thence south into Sonora and northern Lower California.

***Perognathus baileyi rudinoris** Elliot.

1903. *Perognathus baileyi rudinoris* ELLIOT, Field Columb. Mus., publ. 74, zool. ser., vol. 3, p. 167. April, 1903.

TYPE LOCALITY.—San Quintin, Lower California, Mexico.

†***Perognathus baileyi insularis** Townsend.

1912. *Perognathus baileyi insularis* TOWNSEND, Bull. Amer. Mus. Nat. Hist., vol. 31, p. 122. June 14, 1912.

TYPE LOCALITY.—Tiburon Island, Gulf of California, Mexico.

***Perognathus knekus** Elliot.

1903. *Perognathus knekus* ELLIOT, Field Columb. Mus., publ. 74, zool. ser., vol. 3, p. 169. April, 1903.

TYPE LOCALITY.—Rosarito, San Pedro Martir Mountains, Lower California, Mexico.

†***Perognathus hispidus hispidus** Baird.

1857. *Perognathus hispidus* BAIRD, Mamm. N. Amer., p. 421.

1885. *Perognathus hispidus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 599. 1885.

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Perognathus hispidus hispidus—Continued.

†1889. *Perognathus paradoxus spilotus* MERRIAM, North Amer. Fauna, No. 1, p. 25. October 25, 1889. (Gainesville, Cook County, Texas.)

TYPE LOCALITY.—Charco Escondido, State of Tamaulipas, Mexico.

RANGE.—Southern and western Texas, north to Oklahoma and south into border States of Mexico. Lower Sonoran zone.

†***Perognathus hispidus paradoxus** (Merriam).

1889. *Perognathus paradoxus* MERRIAM, North Amer. Fauna, No. 1, p. 24. October 25, 1889.

1894. *Perognathus latirostris* RHOADS, Amer. Nat., vol. 28, p. 185. February, 1894. (Rocky Mountains.)

1894. *Perognathus conditi* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 6, p. 318. November 7, 1894. (San Bernardino Ranch, Cochise County, Arizona.)

1900. *Perognathus hispidus paradoxus* OSGOOD, North Amer. Fauna, No. 18, p. 44. September 20, 1900.

TYPE LOCALITY.—Banner, Trego County, Kansas.

RANGE.—Upper Sonoran zone of the Great Plains from the Dakotas to Texas, westward to base of Rocky Mountains.

***Perognathus hispidus maximus** ELLIOT.

1903. *Perognathus hispidus maximus* ELLIOT, Field Columb. Mus., publ. 87, zool. ser., vol. 3, p. 253. December, 1903.

TYPE LOCALITY.—Noble, Cleveland County, Oklahoma.

†***Perognathus hispidus zacatecæ** Osgood.

1900. *Perognathus hispidus zacatecæ* OSGOOD, North Amer. Fauna, No. 18, p. 45. September 20, 1900.

TYPE LOCALITY.—Valparaiso, State of Zacatecas, Mexico.

RANGE.—Upper Sonoran zone from Valparaiso, Zacatecas, to Celaya, Guanajuato, Mexico.

†***Perognathus penicillatus penicillatus** Woodhouse.

1852. *Perognathus penicillatus* WOODHOUSE, Proc. Acad. Nat. Sci. Philadelphia, vol. 6, p. 200.

1885. *Perognathus penicillatus* TRUE, Proc. U. S. Nat. Mus., vol. 7, (1884), p. 599. 1885.

TYPE LOCALITY.—San Francisco Mountain, Coconino County, Arizona.

RANGE.—Vicinity of Colorado River, from Bunkerville, Nevada, to Yuma, Arizona, where it meets the range of the subspecies *angustirostis*. The type is the only specimen known from the type locality. Lower Sonoran zone.

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†*Perognathus penicillatus angustirostris Osgood.

1900. *Perognathus penicillatus angustirostris* OSGOOD, North Amer. Fauna, No. 18, p. 47. September 20, 1900.

TYPE LOCALITY.—Carriso Creek, Colorado Desert, Imperial County, California.

RANGE.—Colorado Desert; south to northern Lower California and east to the Colorado River and southwestern Arizona, where it meets the range of *pencillatus* and *pricei*. Lower Sonoran zone.

*Perognathus penicillatus pricei (Allen).

1894. *Perognathus pricei* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 6, p. 318. November 7, 1894.

1900. *Perognathus penicillatus pricei* OSGOOD, North Amer. Fauna, No. 18, p. 47. September 20, 1900.

TYPE LOCALITY.—Oposura, State of Sonora, Mexico.

RANGE.—South central Arizona and northwestern Mexico, west of the Sierra Madre.

†*Perognathus penicillatus eremicus (Mearns).

1898. *Perognathus (Chætodipus) eremicus* MEARNS, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 300. August 31, 1898.

1900. *Perognathus penicillatus eremicus* OSGOOD, North Amer. Fauna, No. 18, p. 48. September 20, 1900.

TYPE LOCALITY.—Fort Hancock, El Paso County, Texas.

RANGE.—Extreme western Texas, thence south into north central Mexico east of the Sierra Madre at least to La Ventura, Coahuila.

†*Perognathus penicillatus ammophilus Osgood.

1907. *Perognathus penicillatus ammophilus* OSGOOD, Proc. Biol. Soc. Washington, vol. 20, p. 20. February 23, 1907.

TYPE LOCALITY.—Margarita Island, Lower California, Mexico.

†*Perognathus penicillatus siccus Osgood.

1907. *Perognathus penicillatus siccus* OSGOOD, Proc. Biol. Soc. Washington, vol. 20, p. 20. February 23, 1907.

TYPE LOCALITY.—Ceralbo Island, Lower California, Mexico.

†*Perognathus penicillatus seri Nelson.

1912. *Perognathus penicillatus goldmani* TOWNSEND, Bull. Amer. Mus. Nat. Hist., vol. 31, p. 122. June 14, 1912. Not of Osgood, 1900.

1912. *Perognathus penicillatus seri* NELSON, Proc. Biol. Soc. Washington, vol. 25, p. 116. June 29, 1912. (Substitute for *goldmani* Townsend.)

TYPE LOCALITY.—Tiburon Island, Gulf of California, Mexico.

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***Perognathus helleri** Elliot.

1903. *Perognathus helleri* ELLIOT, Field Columb. Mus., publ. 74, zool. ser., vol. 3, p. 166. April, 1903.

TYPE LOCALITY.—San Quintin, Lower California, Mexico.

†*Perognathus stephensi Merriam.

1894. *Perognathus (Chætodipus) stephensi* MERRIAM, Proc. Acad. Nat. Sci. Philadelphia, p. 267. September 27, 1894.

TYPE LOCALITY.—Mesquite Valley, northwest arm of Death Valley, Inyo County, California.

RANGE.—Known only from the type locality.

†*Perognathus arenarius Merriam.

1894. *Perognathus arenarius* MERRIAM, Proc. California Acad. Sci., ser. 2, vol. 4, p. 461. September 25, 1894.

TYPE LOCALITY.—San Jorge, near Comondu, Lower California, Mexico.

RANGE.—Known only from the type locality.

***Perognathus pericalles** Elliot.

1903. *Perognathus pericalles* ELLIOT, Field Columb. Mus., publ. 87, zool. ser., vol. 3, p. 252. December, 1903.

TYPE LOCALITY.—Keeler, Owens Lake, Inyo County, California.

***Perognathus pernix pernix** Allen.

1898. *Perognathus pernix* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 149. April 12, 1898.

TYPE LOCALITY.—Rosario, State of Sinaloa, Mexico.

RANGE.—Coast of western Mexico in the States of Sinaloa and Jalisco.

†*Perognathus pernix rostratus Osgood.

1900. *Perognathus pernix rostratus* OSGOOD, North Amer. Fauna, No. 18, p. 51. September 20, 1900.

TYPE LOCALITY.—Camoa, Rio Mayo, State of Sonora, Mexico.

RANGE.—Coast plains of southern Sonora and northern Sinaloa, Mexico.

†*Perognathus intermedius Merriam.

1889. *Perognathus intermedius* MERRIAM, North Amer. Fauna, No. 1, p. 18. October 25, 1889.

†1889. *Perognathus obscurus* MERRIAM, North Amer. Fauna, No. 1, p. 20. October 25, 1889. (Camp Apache, Grant County, New Mexico.)

TYPE LOCALITY.—Mud Spring, Mohave County, Arizona.

RANGE.—Known from several scattered localities in the Sonoran zone of Arizona, New Mexico, and northern Mexico.

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†*Perognathus nelsoni nelsoni Merriam.

1894. *Perognathus (Chætodipus) nelsoni* MERRIAM, Proc. Acad. Nat. Sci., Philadelphia, p. 266. September 27, 1894.

TYPE LOCALITY.—Hacienda La Parada, about 25 miles northwest of the city of San Luis Potosi, State of San Luis Potosi, Mexico.

RANGE.—Upper and lower Sonoran zone of central Mexico, covering the table-land from Inde, Durango, south to Lagos, Jalisco, and east to Jaumave, Tamaulipas.

†*Perognathus nelsoni canescens (Merriam).

1894. *Perognathus (Chætodipus) intermedius canescens* MERRIAM, Proc. Acad. Nat. Sci. Philadelphia, p. 267. September 27, 1894.

1900. *Perognathus nelsoni canescens* OSGOOD, North Amer. Fauna, No. 18, p. 54. September 20, 1900.

TYPE LOCALITY.—Jaral, State of Coahuila, Mexico.

RANGE.—Known only from the type locality.

†*Perognathus goldmani Osgood.

1900. *Perognathus goldmani* OSGOOD, North Amer. Fauna, No. 18, p. 54. September 20, 1900.

TYPE LOCALITY.—Sinaloa, State of Sinaloa, Mexico.

RANGE.—Coast plains of northern Sinaloa and southern Sonora, Mexico.

†*Perognathus artus Osgood.

1900. *Perognathus artus* OSGOOD, North Amer. Fauna, No. 18, p. 55. September 20, 1900.

TYPE LOCALITY.—Batopilas, State of Chihuahua, Mexico.

RANGE.—Known only from a few scattered localities in western Mexico.

†*Perognathus fallax fallax Merriam.

1889. *Perognathus fallax* MERRIAM, North Amer. Fauna, No. 1, p. 19. October 25, 1889.

TYPE LOCALITY.—Reche Canyon, 3 miles southeast of Colton, San Bernardino County, California.

RANGE.—Extreme southwestern California, occupying the region west of the San Bernardino and San Jacinto Ranges and extending south into northern Lower California.

†*Perognathus fallax pallidus Mearns.

1901. *Perognathus fallax pallidus* MEARNS, Proc. Biol. Soc. Washington, vol. 14, p. 135. August 9, 1901.

TYPE LOCALITY.—Mountain Spring, half way up the east slope of the Coast Range Mountains, on the Mexican boundary line, San Diego County, California.

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†*Perognathus anthonyi Osgood.

1900. *Perognathus anthonyi* OSGOOD, North Amer. Fauna, No. 18, p. 56. September 20, 1900.

TYPE LOCALITY.—South Bay, Cerros Island, Lower California, Mexico.

RANGE.—Known only from the type locality.

*Perognathus femoralis femoralis Allen.

1891. *Perognathus (Chætodipus) femoralis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 281. June 30, 1891.

TYPE LOCALITY.—Dulzura, San Diego County, California.

RANGE.—Known from a few localities in San Diego County, in extreme southern California, and the adjoining part of Lower California.

Perognathus femoralis mesopolius Elliot.

1903. *Perognathus femoralis mesopolius* ELLIOT, Field Columb. Mus., publ. 74, zool. ser., vol. 3, p. 168. April, 1903.

TYPE LOCALITY.—Peñon, San Pedro Martir Mountains, Lower California, Mexico. Altitude, 5,000 feet.

†*Perognathus californicus californicus Merriam.

1889. *Perognathus californicus* MERRIAM, North Amer. Fauna, No. 1, p. 26. October 25, 1889.

†1889. *Perognathus armatus* MERRIAM, North Amer. Fauna, No. 1, p. 27. October 25, 1889. (Mount Diablo, central California.)

TYPE LOCALITY.—Berkeley, Alameda County, California.

RANGE.—Vicinity of San Francisco Bay and south to Bear Valley, San Benito County, where it meets the range of the subspecies *dispar*.

†*Perognathus californicus dispar Osgood.

1900. *Perognathus californicus dispar* OSGOOD, North Amer. Fauna, No. 18, p. 58. September 20, 1900.

TYPE LOCALITY.—Carpenteria, Santa Barbara County, California.

RANGE.—Coast valleys of California from San Bernardino to San Benito County and north along the foothills of the west slope of the Sierras to Placer County.

†*Perognathus californicus ochrus Osgood.

1904. *Perognathus californicus ochrus* OSGOOD, Proc. Biol. Soc. Washington, vol. 17, p. 128. June 9, 1904.

TYPE LOCALITY.—Santiago Springs, 16 miles southwest of McKittrick, Kern County, California.

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†*Perognathus spinatus spinatus Merriam.

1889. *Perognathus spinatus* MERRIAM, North Amer. Fauna, No. 1, p. 21. October 25, 1889.

TYPE LOCALITY.—Twenty-five miles below the Needles, Colorado River, San Bernardino County, California.

RANGE.—Desert region of southern California and northern Lower California.

†*Perognathus spinatus peninsulæ Merriam.

1894. *Perognathus spinatus peninsulæ* MERRIAM, Proc. California Acad. Sci., ser. 2, vol. 4, p. 460. September 25, 1894.

TYPE LOCALITY.—San José del Cabo, Lower California, Mexico.

RANGE.—Cape region of Lower California.

†*Perognathus spinatus magdalenæ Osgood.

1907. *Perognathus spinatus magdalenæ* OSGOOD, Proc. Biol. Soc. Washington, vol. 20, p. 21. February 23, 1907.

TYPE LOCALITY.—Magdalena Island, Lower California, Mexico.

†*Perognathus spinatus occultus Nelson.

1912. *Perognathus spinatus nelsoni* TOWNSEND, Bull. Amer. Mus. Nat. Hist., vol. 31, p. 122. June 14, 1912. Not of Merriam, 1894.

1912. *Perognathus spinatus occultus* NELSON, Proc. Biol. Soc. Washington, vol. 25, p. 116. June 29, 1912. (Substitute for *nelsoni* Townsend.)

TYPE LOCALITY.—Carmen Island, Gulf of California, Mexico.

*Perognathus bryanti Merriam.

1894. *Perognathus bryanti* MERRIAM, Proc. California Acad. Sci., ser. 2, vol. 4, p. 458. September 25, 1894.

TYPE LOCALITY.—San José Island, Lower California, Mexico.

†*Perognathus margaritæ Merriam.

1894. *Perognathus margaritæ* MERRIAM, Proc. California Acad. Sci., ser. 2, vol. 4, p. 459. September 25, 1894.

TYPE LOCALITY.—Santa Margarita Island, Lower California.

Subfamily DIPODOMYINÆ.

Genus PERODIPUS Fitzinger.

1867. *Perodipus* FITZINGER, Sitzungsber. math-nat. Classe, k. Akad. Wissensch. Wien, vol. 56, p. 126. Type, *Dipodomys agilis* GAMBEL.

1890. *Dipodops* MERRIAM, North Amer. Fauna, No. 3, p. 71, September 11, 1890. Type, *Dipodomys agilis* GAMBEL.

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***Perodipus agilis agilis** (Gambel).

1848. *Dipodomys agilis* GAMBEL, Proc. Acad. Nat. Sci. Philadelphia, vol. 4, p. 77.

1886. *Dipodomys agilis* TRUE, Proc. U. S. Nat. Mus., vol. 9, p. 410. October 30, 1886.

1894. *Perodipus agilis* ALLEN, Abstract Proc. Linn. Soc. New York, 1893–1894, p. 28. July 20, 1894.

TYPE LOCALITY.—Los Angeles, Los Angeles County, California.

†*Perodipus agilis tularensis Merriam.

1904. *Perodipus agilis tularensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 17, p. 143. July 14, 1904.

TYPE LOCALITY.—Alila, Tulare County, California.

†*Perodipus cabezonæ Merriam.

1904. *Perodipus cabezonæ* MERRIAM, Proc. Biol. Soc. Washington, vol. 17, p. 144. July 14, 1904.

TYPE LOCALITY.—Cabezon, Colorado Desert, Riverside County, California.

***Perodipus chapmani** (Mearns).

1890. *Dipodomys chapmani* MEARNS, Bull. Amer. Mus. Nat. Hist., vol. 2, p. 291. February 21, 1890.

1894. *Perodipus chapmani* ALLEN, Abstract Proc. Linn. Soc. New York, 1893–1894, p. 29. July 20, 1894.

TYPE LOCALITY.—Fort Verde, Yavapai County, Arizona.

Regarded by Merriam (Science, n. s., vol. 2, p. 417, September 17, 1895) as identical with *P. ordii*.

†*Perodipus compactus (True).

1889. *Dipodomys compactus* TRUE, Proc. U. S. Nat. Mus., vol. 11, p. 160. January 5, 1889.

1894. *Perodipus compactus* ALLEN, Abstract Proc. Linn. Soc. New York, 1893–1894, p. 29. July 20, 1894.

TYPE LOCALITY.—Padre Island, Cameron County, Texas.

†*Perodipus goldmani Merriam.

1904. *Perodipus goldmani* MERRIAM, Proc. Biol. Soc. Washington, vol. 17, p. 143. July 14, 1904.

TYPE LOCALITY.—Salinas, mouth of Salinas Valley, Monterey County, California.

†*Perodipus ingens Merriam.

1904. *Perodipus ingens* MERRIAM, Proc. Biol. Soc. Washington, vol. 17, p. 141. July 14, 1904.

TYPE LOCALITY.—Painted Rock, 20 miles southeast of Simmler, Carriso Plain, San Luis Obispo County, California.

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†*Perodipus longipes (Merriam).

1890. *Dipodops longipes* MERRIAM, North Amer. Fauna, No. 3, p. 72. September 11, 1890.

1894. *Perodipus longipes* ALLEN, Abstract Proc. Linn. Soc. New York, 1893–1894, p. 29. July 20, 1894.

TYPE LOCALITY.—Foot of Echo Cliffs, Painted Desert, Coconino County, Arizona.

†*Perodipus microps microps Merriam.

1904. *Perodipus microps* MERRIAM, Proc. Biol. Soc. Washington, vol. 17, p. 145. July 14, 1904.

TYPE LOCALITY.—Lone Pine, Owens Valley, Inyo County, California.

†*Perodipus microps levipes Merriam.

1904. *Perodipus microps levipes* MERRIAM, Proc. Biol. Soc. Washington, vol. 17, p. 145. July 14, 1904.

TYPE LOCALITY.—Perognathus Flat, Emigrant Gap, Panamint Mountains, Inyo County, California. Altitude, 5,200 feet.

†*Perodipus montanus montanus (Baird).

1855. *Dipodomys montanus* BAIRD, Proc. Acad. Nat. Sci. Philadelphia, vol. 7, p. 334.

1904. *Perodipus montanus* MERRIAM, Proc. Biol. Soc. Washington, vol. 17, p. 140. July 14, 1904.

TYPE LOCALITY.—Fort Massachusetts (now Fort Garland), Costilla County, Colorado.

†*Perodipus montanus utahensis Merriam.

1904. *Perodipus montanus utahensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 17, p. 143. July 14, 1904.

TYPE LOCALITY.—Ogden, Weber County, Utah.

†*Perodipus morroensis Merriam.

1907. *Perodipus morroensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 20, p. 78. July 22, 1907.

TYPE LOCALITY.—Morro, San Luis Obispo County, California.

Perodipus obscurus Allen.

1903. *Perodipus obscurus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 19, p. 603. November 12, 1903.

TYPE LOCALITY.—Rio Sestin, northwest Durango, Mexico.

*Perodipus ordii ordii (Woodhouse).

1853. *Dipodomys ordii* WOODHOUSE, Proc. Acad. Nat. Sci. Philadelphia, vol. 6, p. 224.

1885. *Dipodomys phillipsi ordii* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 599. 1885. (Part.)

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Perodipus ordii ordii—Continued.

1894. *P[erodipus] ordi* MERRIAM, Proc. Biol. Soc. Washington, vol. 9, p. 115. June 21, 1894.

TYPE LOCALITY.—El Paso, El Paso County, Texas.

†***Perodipus ordii columbianus** Merriam.

1894. *Perodipus ordi columbianus* MERRIAM, Proc. Biol. Soc. Washington, vol. 9, p. 115. June 21, 1894.

TYPE LOCALITY.—Umatilla, at mouth of Umatilla River, Plains of Columbia, Umatilla County, Oregon.

***Perodipus ordii palmeri** (Allen).

1891. *Dipodops ordii palmeri* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 276. June 30, 1891.

1894. *Perodipus ordii palmeri* ALLEN, Abstract Proc. Linn. Soc. New York, 1893–1894, p. 28. July 20, 1894.

TYPE LOCALITY.—San Luis Potosi, State of San Luis Potosi, Mexico.

†***Perodipus panamintinus** Merriam.

1894. *Perodipus panamintinus* MERRIAM, Proc. Biol. Soc. Washington, vol. 9, p. 114. June 21, 1894.

TYPE LOCALITY.—Head of Willow Creek, Panamint Mountains, Inyo County, California.

†***Perodipus perplexus** Merriam.

1907. *Perodipus perplexus* MERRIAM, Proc. Biol. Soc. Washington, vol. 20, p. 79. July 22, 1907.

TYPE LOCALITY.—Walker Basin, Kern County, California.

***Perodipus richardsoni** (Allen).

1891. *Dipodops richardsoni* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 277. June 30, 1891.

1894. *P[erodipus] richardsoni* MERRIAM, Proc. biol. Soc. Washington, vol. 9, p. 114. June 21, 1894.

TYPE LOCALITY.—On one of the sources of Beaver River, Beaver County, Oklahoma.

Regarded by Bailey (North Amer. Fauna, No. 25, p. 144, October 24, 1905) as a subspecies of *D. montanus*.

***Perodipus sennetti** (Allen).

1891. *Dipodops sennetti* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 226. April 29, 1891.

1894. *Perodipus sennetti* ALLEN, Abstract Proc. Linn. Soc. New York, 1893–1894, p. 29. July 20, 1894.

TYPE LOCALITY.—Santa Rosa, Cameron County, Texas, 85 miles southwest of Corpus Christi. (See Bailey, North Amer. Fauna, No. 25, p. 146, October 24, 1905.)

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†*Perodipus simulans simulans (Merriam).

1904. *Perodipus streatori simulans* MERRIAM, Proc. Biol. Soc. Washington, vol. 17, p. 144. July 14, 1904.

1907. *Perodipus simulans* MERRIAM, Proc. Biol. Soc. Washington, vol. 20, p. 79. July 22, 1907.

TYPE LOCALITY.—Dulzura, San Diego County, California.

†*Perodipus simulans peninsularis Merriam.

1907. *Perodipus simulans peninsularis* MERRIAM, Proc. Biol. Soc. Washington, vol. 20, p. 79. July 22, 1907.

TYPE LOCALITY.—Santo Domingo, Lower California, Mexico,

†*Perodipus stephensi Merriam.

1907. *Perodipus stephensi* MERRIAM, Proc. Biol. Soc. Washington, vol. 20, p. 78. July 22, 1907.

TYPE LOCALITY.—San Jacinto Valley, Riverside County, California.

†*Perodipus streatori Merriam.

1894. *Perodipus streatori* MERRIAM, Proc. Biol. Soc. Washington, vol. 9, p. 113. June 21, 1894.

TYPE LOCALITY.—Carbondale, Mariposa County, California.

†*Perodipus venustus Merriam.

1904. *Perodipus venustus* MERRIAM, Proc. Biol. Soc. Washington, vol. 17, p. 142. July 14, 1904.

TYPE LOCALITY.—Santa Cruz, Santa Cruz County, California.

Genus DIPODOMYS Gray.

1841. *Dipodomys* GRAY, Ann. and Mag. Nat. Hist., vol. 7, p. 521. August, 1841. Type, *Dipodomys phillipsii* GRAY.

†*Dipodomys ambiguus Merriam.

1890. *Dipodomys ambiguus* MERRIAM, North Amer. Fauna No. 4, p. 42. October 8, 1890.

TYPE LOCALITY.—El Paso, El Paso County, Texas.

Regarded by Merriam (Science, n. s., vol. 7, p. 31, January 7, 1898) as a form of *D. merriami*.

†*Dipodomys californicus californicus Merriam.

1890. *Dipodomys californicus* MERRIAM, North Amer. Fauna, No. 4, p. 49. October 8, 1890.

TYPE LOCALITY.—Ukiah, Mendocino County, California.

*Dipodomys californicus pallidulus Bangs.

1899. *Dipodomys californicus pallidulus* BANGS, Proc. New England Zool. Club, vol. 1, p. 65. July 31, 1899.

TYPE LOCALITY.—Sites, Colusa County, California.

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†*Dipodomys deserti deserti Stephens.

1887. *Dipodomys deserti* STEPHENS, Amer. Nat., vol. 21, p. 42. January, 1887.

TYPE LOCALITY.—Mohave River, San Bernardino County, California.

*Dipodomys deserti helleri Elliot.

1903. *Dipodomys deserti helleri* ELLIOT, Field Columb. Mus., publ. 87, zool. ser., vol. 3, p. 249. December, 1903.

TYPE LOCALITY.—Keeler, Owens Lake, Inyo County, California.

†*Dipodomys elator Merriam.

1894. *Dipodomys elator* MERRIAM, Proc. Biol. Soc. Washington, vol. 9, p. 109. June 21, 1894.

TYPE LOCALITY.—Henrietta, Clay County, Texas.

†*Dipodomys insularis Merriam.

1907. *Dipodomys insularis* MERRIAM, Proc. Biol. Soc. Washington, vol. 20, p. 77. July 22, 1907.

TYPE LOCALITY.—San José Island, Gulf of California, Lower California, Mexico.

†*Dipodomys margaritæ Merriam.

1907. *Dipodomys margaritæ* MERRIAM, Proc. Biol. Soc. Washington, vol. 20, p. 76. July 22, 1907.

TYPE LOCALITY.—Margarita Island, Lower California, Mexico.

*Dipodomys merriami merriami Mearns.

1890. *Dipodomys merriami* MEARNS, Bull. Amer. Mus. Nat. Hist., vol. 2, p. 290. February 21, 1890.

TYPE LOCALITY.—New River, between Phoenix and Prescott, Arizona.

*Dipodomys merriami arenivagus Elliot.

1903. *Dipodomys m[erriami] arenivagus* ELLIOT, Field Columb. Mus., publ. 87, zool. ser., vol. 3, p. 249. December, 1903.

TYPE LOCALITY.—San Felipe, Lower California, Mexico.

†*Dipodomys merriami atronasus Merriam.

1894. *Dipodomys merriami atronasus* MERRIAM, Proc. Biol. Soc. Washington, vol. 9, p. 113. June 21, 1894.

TYPE LOCALITY.—Hacienda La Parada, about 25 miles northwest of the city of San Luis Potosi, State of San Luis Potosi, Mexico.

†*Dipodomys merriami exilis Merriam.

1894. *Dipodomys merriami exilis* MERRIAM, Proc. Biol. Soc. Washington, vol. 9, p. 113. June 21, 1894.

TYPE LOCALITY.—Fresno, San Joaquin Valley, Fresno County, California.

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†*Dipodomys merriami kernensis Merriam.

1907. *Dipodomys merriami kernensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 20, p. 77. July 22, 1907.

TYPE LOCALITY.—Onyx, west end of Walker Pass, Kern County, California.

†*Dipodomys merriami melanurus Merriam.

1893. *Dipodomys merriami melanurus* MERRIAM, Proc. California Acad. Sci., ser. 2, vol. 3, p. 345. June 5, 1893.

TYPE LOCALITY.—San José del Cabo, Lower California, Mexico.

*Dipodomys merriami mortivallis Elliot.

1903. *Dipodomys merriami mortivallis* ELLIOT, Field Columb. Mus., publ. 87, zool. ser., vol. 3, p. 250. December, 1903.

TYPE LOCALITY.—Furnace Creek, Death Valley, Inyo County, California.

†*Dipodomys merriami nevadensis Merriam.

1894. *Dipodomys merriami nevadensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 9, p. 111. June 21, 1894.

TYPE LOCALITY.—Pyramid Lake, Washoe County, Nevada.

†*Dipodomys merriami nitratoides Merriam.

1894. *Dipodomys merriami nitratoides* MERRIAM, Proc. Biol. Soc. Washington, vol. 9, p. 112. June 21, 1894.

TYPE LOCALITY.—Tipton, San Joaquin Valley, Tulare County, California.

†*Dipodomys merriami nitratus Merriam.

1894. *Dipodomys merriami nitratus* MERRIAM, Proc. Biol. Soc. Washington, vol. 9, p. 112. June 21, 1894.

TYPE LOCALITY.—Keeler, east side of Owens Lake, Inyo County, California.

†*Dipodomys mitchelli Mearns.

1897. *Dipodomys mitchelli* MEARNS, Proc. U. S. Nat. Mus., vol. 19, p. 719. July 30, 1897.

TYPE LOCALITY.—Tiburon Island, Gulf of California, Mexico.

†*Dipodomys nelsoni Merriam.

1907. *Dipodomys nelsoni* MERRIAM, Proc. Biol. Soc. Washington, vol. 20, p. 75. July 22, 1907.

TYPE LOCALITY.—La Ventura, Coahuila, Mexico.

†*Dipodomys ornatus Merriam.

1894. *Dipodomys ornatus* MERRIAM, Proc. Biol. Soc. Washington, vol. 9, p. 110. June 21, 1894.

TYPE LOCALITY.—Berriozabal, State of Zacatecas, Mexico.

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***Dipodomys parvus** Rhoads.

1894. *Dipodomys parvus* RHOADS, Amer. Nat., vol. 28, p. 70. January, 1894.

TYPE LOCALITY.—San Bernardino, San Bernardino County, California.

Regarded by Merriam (Science, n. s., vol. 7, p. 31, January 7, 1898) as a form of *D. merriami*.

†*Dipodomys perotensis Merriam.

1894. *Dipodomys perotensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 9, p. 111. June 21, 1894.

TYPE LOCALITY.—Perote, State of Vera Cruz, Mexico.

***Dipodomys phillipsii** Gray.

1841. *Dipodomys phillipii* (err. typ.) GRAY, Ann. and Mag. Nat. Hist., vol. 7, p. 522. August, 1841.

1893. *Dipodomys phillipsi* MERRIAM, Proc. Biol. Soc. Washington, vol. 8, p. 91. July 18, 1893.

TYPE LOCALITY.—Valley of Mexico, Mexico.

The *Dipodomys phillipsi phillipsi* of True (Proc. U. S. Nat. Mus., vol. 7 (1884), p. 599, 1885) is not this animal, but an aggregate of numerous small species of *Dipodomys* and *Perodipus*.

†*Dipodomys platycephalus Merriam.

1907. *Dipodomys platycephalus* MERRIAM, Proc. Biol. Soc. Washington, vol. 20, p. 76. July 22, 1907.

TYPE LOCALITY.—Calmalli, Lower California, Mexico.

***Dipodomys similis** Rhoads.

1894. *Dipodomys similis* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, 1893, p. 411. January 27, 1894.

TYPE LOCALITY.—White Water, Riverside County, California.

Regarded by Merriam (Science, n. s., vol. 7, p. 31, January 7, 1898) as identical with *D. simiolus*.

***Dipodomys simiolus** Rhoads.

1894. *Dipodomys simiolus* RHOADS, Proc. Acad. Nat. Sci. Philadelphia., 1893, p. 410. January 30, 1894.

TYPE LOCALITY.—Agua Caliente, Mohave Desert, California.

Regarded by Mearns (Proc. U. S. Nat. Mus., vol. 19, p. 720, July 30, 1897) as a form of *D. merriami*.

†*Dipodomys spectabilis spectabilis Merriam.

1890. *Dipodomys spectabilis* MERRIAM, North Amer. Fauna, No. 4, p. 46. October 8, 1890.

TYPE LOCALITY.—Dos Cabezos, Cochise County, Arizona.

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†*Dipodomys spectabilis cratodon Merriam.

1907. *Dipodomys spectabilis cratodon* MERRIAM, Proc. Biol. Soc. Washington, vol. 20, p. 75. July 22, 1907.

TYPE LOCALITY.—Chicalote, Aguas Calientes, Mexico.

Genus MICRODIPODOPS Merriam.

1891. *Microdipodops* MERRIAM, North Amer. Fauna, No. 5, p. 115. July 30, 1891. Type, *Microdipodops megacephalus* MERRIAM.

†*Microdipodops californicus Merriam.

1901. *Microdipodops californicus* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 128. July 19, 1901.

TYPE LOCALITY.—Sierra Valley, near Vinton, Plumas County, California.

†*Microdipodops megacephalus megacephalus Merriam.

1891. *Microdipodops megacephalus* MERRIAM, North Amer. Fauna, No. 5, p. 116. July 30, 1891.

TYPE LOCALITY.—Halleck, East Humboldt Valley, Elko County, Nevada.

†*Microdipodops megacephalus oregonus Merriam.

1901. *Microdipodops megacephalus oregonus* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 127. July 19, 1901.

TYPE LOCALITY.—Lake Alvord, Alvord Desert, Harney County, Oregon.

†*Microdipodops pallidus Merriam.

1901. *Microdipodops pallidus* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 127. July 19, 1901.

TYPE LOCALITY.—Ten miles east of Stillwater, near sink of the Humboldt and Carson, Churchill County, Nevada.

Family ZAPODIDÆ.

Subfamily ZAPODINÆ.

Genus ZAPUS Coues.[1]

1875. *Zapus* COUES, Bull. U. S. Geol. Surv. and Geogr. Terr., ser. 2, vol. 1, p. 253. Type, *Dipus hudsonius* ZIMMERMANN.

*Zapus hudsonius hudsonius (Zimmermann).

1780. *Dipus hudsonius* ZIMMERMANN, Geogr. Gesch., vol. 2, p. 358.

1875. *Zapus hudsonius* COUES, Bull. U. S. Geol. and Geogr. Surv. Terr., ser 2, vol. 1, p. 253.

[1] Revised by Preble, North Amer. Fauna, No. 15, pp. 13-32, August 8, 1899.

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Zapus hudsonius hudsonius—Continued.

1885. *Zapus hudsonius* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 600. 1885.

1899. *Zapus hudsonius hardyi* BATCHELDER, Proc. New England Zool. Club, vol. 1, p. 5. February 8, 1899. (Mount Desert Island, Hancock County, Maine.)

TYPE LOCALITY.—Hudson Bay.

RANGE.—From the southern shores of Hudson Bay south to New Jersey, and in the mountains to North Carolina, west to Iowa and Missouri, and northwest to Alaska.

***Zapus hudsonius ladas** Bangs.

1899. *Zapus hudsonius ladas* BANGS, Proc. New England Zool. Club, vol. 1, p. 10. February 28, 1899.

TYPE LOCALITY.—Rigoulette, Hamilton Inlet, Labrador.

RANGE.—Eastern Quebec north to Hamilton Inlet, Labrador; limits of range unknown.

†***Zapus hudsonius alascensis** Merriam.

1897. *Zapus hudsonius alascensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 223. July 15, 1897.

TYPE LOCALITY.—Yakutat Bay, Alaska.

RANGE.—Yakutat Bay, north to Yukon River; limits of range unknown.

***Zapus hudsonius americanus** (Barton).

1799. *Dipus americanus* BARTON, Trans. Amer. Philos. Soc., vol. 4, p. 115.

1899. *Zapus hudsonius americanus* BATCHELDER, Proc. New England Zool. Club, vol. 1, p. 6. February 8, 1899.

TYPE LOCALITY.—Near Philadelphia, Pennsylvania.

RANGE.—From the vicinity of Raleigh, North Carolina, north through Upper Austral zone along coastal plain to southern Connecticut and lower Hudson Valley.

†***Zapus hudsonius campestris** Preble.

1899. *Zapus hudsonius campestris* PREBLE, North Amer. Fauna, No. 15, p. 20. August 8, 1899.

TYPE LOCALITY.—Bear Lodge Mountains, Crook County, Wyoming.

RANGE.—Great Plains, from Manitoba southward to Nebraska and westward to Colorado and Wyoming.

†***Zapus tenellus** Merriam.

1897. *Zapus tenellus* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 103. April 26, 1897.

TYPE LOCALITY.—Kamloops, British Columbia, Canada.

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***Zapus princeps princeps** Allen.

1893. *Zapus princeps* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 5, p. 71. April 28, 1893.

TYPE LOCALITY.—Florida, La Plata County, Colorado.

RANGE.—Rocky Mountain region from northern New Mexico northward to Henry House, Alberta.

†*Zapus princeps minor Preble.

1899. *Zapus princeps minor* PREBLE, North Amer. Fauna, No. 15, p. 23. August 8, 1899.

TYPE LOCALITY.—Wingard, near Carlton House, Saskatchewan, Canada.

RANGE.—Plains of Saskatchewan.

†*Zapus princeps oregonus Preble.

1899. *Zapus princeps oregonus* PREBLE, North Amer. Fauna, No. 15, p. 24. August 8, 1899.

TYPE LOCALITY.—Elgin, Blue Mountains, Union County, Oregon.

RANGE.—Blue Mountains of Oregon.

†*Zapus major Preble.

1899. *Zapus major* PREBLE, North Amer. Fauna, No. 15, p. 24. August 8, 1899.

TYPE LOCALITY.—Warner Mountains, Lake County, Oregon.

†*Zapus nevadensis Preble.

1899. *Zapus nevadensis* PREBLE, North Amer. Fauna, No. 15, p. 25. August 8, 1899.

TYPE LOCALITY.—Ruby Mountains, Elko County, Nevada.

***Zapus trinotatus trinotatus** Rhoads.

1894. *Zapus trinotatus* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, p. 421. January 15, 1895.

1899. *Zapus imperator* ELLIOT, Field Columb. Mus., publ. 30, zool. ser., vol. 1, p. 228. February 1, 1899. (Sieg's Ranch, Elwah River, Clallam County, Washington.)

TYPE LOCALITY.—Lulu Island, mouth of Fraser River, British Columbia, Canada.

RANGE.—Coast region of southern British Columbia, Washington (including Cascades), Oregon (west of western base of Cascades), and northern California, south to Humboldt Bay.

***Zapus trinotatus alleni** (Elliot).

1898. *Zapus alleni* ELLIOT, Field Columb. Mus., publ. 27, zool. ser., vol. 1, p. 212. March, 1898.

1899. *Zapus trinotatus alleni* PREBLE, North Amer. Fauna, No. 15, p. 27. August 8, 1899.

TYPE LOCALITY.—Pyramid Peak, Lake Tahoe, Eldorado County, California.

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Zapus trinotatus alleni—Continued.

RANGE.—Mount Shasta and southward in the Sierra Nevada to Mammoth and North Fork of Kern River, California.

†***Zapus luteus** Miller.

1911. *Zapus luteus* MILLER, Proc. Biol. Soc. Washington, vol. 24, p. 253. December 23, 1911.

TYPE LOCALITY.—Espanola, Santa Fe County, New Mexico.

†***Zapus montanus** (Merriam).

1897. *Zapus trinotatus montanus* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 104. April 26, 1897.

1899. *Zapus montanus* PREBLE, North Amer. Fauna, No. 15, p. 28. August 8, 1899.

TYPE LOCALITY.—Crater Lake, Mount Mazama, Klamath County, Oregon.

RANGE.—Cascade region in Oregon.

***Zapus orarius** Preble.

1899. *Zapus orarius* PREBLE, North Amer. Fauna, No. 15, p. 29. August 8, 1899.

TYPE LOCALITY.—Point Reyes, Marin County, California.

RANGE.—Coast of California from Point Reyes north to Mad River, Humboldt County; limits of range unknown.

†***Zapus pacificus** Merriam.

1897. *Zapus pacificus* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 104. April 26, 1897.

TYPE LOCALITY.—Prospect, Rogue River Valley, Jackson County, Oregon.

RANGE.—Interior valleys of southwestern Oregon and northwestern California; limits of range unknown.

Zapus saltator Allen.

1899. *Zapus saltator* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 12, p. 3. March 4, 1899.

TYPE LOCALITY.—Telegraph Creek, Stikine River, British Columbia, Canada.

RANGE.—Telegraph Creek south to mouth of Skeena River and Tschimshian Peninsula; limits of range unknown.

Genus NAPÆOZAPUS Preble.[1]

1899. *Napæozapus* PREBLE, North Amer. Fauna, No. 15, p. 33. August 8, 1899. Type, *Zapus insignis* MILLER.

***Napæozapus insignis insignis** (Miller).

1891. *Zapus insignis* MILLER, Amer. Nat., vol. 25, p. 742. August, 1891.

[1] Revised by Preble, North Amer. Fauna, No. 15, pp. 33–37, August 8, 1899.

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Napæozapus insignis insignis—Continued.

1899. *Napæozapus insignis* MILLER, Bull. New York State Museum, vol. 6, p. 330. November 18, 1899.

TYPE LOCALITY.—Restigouche River, New Brunswick, Canada.

RANGE.—Canadian zone in eastern Canada and south to western Maryland.

†***Napæozapus insignis roanensis** (Preble).

1899. *Zapus* (*Napæozapus*) *insignis roanensis* PREBLE, North Amer. Fauna, No. 15, p. 35. August 8, 1899.

1900. *Napæozapus insignis roanensis* MILLER, Bull. New York State Museum, vol. 8, p. 114. November 21, 1900.

TYPE LOCALITY.—Roan Mountain, Mitchell County, North Carolina.

Napæozapus insignis abietorum (Preble).

1899. *Zapus* (*Napæozapus*) *insignis abietorum* PREBLE, North Amer. Fauna, No. 15, p. 36. August 8, 1899.

1900. *Napæozapus insignis abietorum* MILLER, Bull. New York State Museum, vol. 8, p. 114. November 21, 1900.

TYPE LOCALITY.—Peninsula Harbor, north shore of Lake Superior, Ontario, Canada.

RANGE.—Probably throughout Hudsonian zone in eastern Canada.

Family OCTODONTIDÆ.

Subfamily LONCHERINÆ.

Genus LONCHERES Illiger.

1811. *Loncheres* ILLIGER, Prodr. Syst. Mamm. et Avium, p. 90. Type, *Myoxus chrysurus* ZIMMERMANN.

***Loncheres armatus** (I. Geoffroy).

1838. *Nelomys armatus* I. GEOFFROY, Ann. Sci. Nat., ser. 2, vol. 10, p. 125.

1843. *L*[*oncheres*] *armata* WAGNER, Schreber's Säugthiere, Suppl., vol. 3, p. 335.

1885. *Loncheres armatus* TRUE, Proc. U. S. Nat. Mus., vol. 7, (1884), p. 550. 1885.

TYPE LOCALITY.—Cayenne, French Guiana. (Recorded from Martinique, Lesser Antilles.)

***Loncheres labilis** Bangs.

1901. *Loncheres labilis* BANGS, Amer. Nat., vol. 35, p. 638. August, 1901.

TYPE LOCALITY.—San Miguel Island, Panama.

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Genus PROECHIMYS Allen.

1899. *Proechimys* Allen, Bull. Amer. Mus. Nat. Hist., vol. 12, p. 264. December 26, 1899. Type, *Echimys trinitatis* Allen and Chapman.

For discussion of the status of the names *Proechimys* Allen and *Cercomys* F. Cuvier, see Goldman, Proc. Biol. Soc. Washington, vol. 25, p. 94, May 4, 1912, and Thomas, Proc. Biol. Soc. Washington, vol. 25, pp. 115–116, June 29, 1912.

***Proechimys burrus** Bangs.

1901. *Proechimys burrus* Bangs, Amer. Nat., vol. 35, p. 640. August, 1901.

Type Locality.—San Miguel Island, Panama.

***Proechimys centralis centralis** (Thomas).

1889. *Echinomys semispinosus* True, Proc. U. S. Nat. Mus., vol. 11 (1888), p. 467. September 3, 1889. Not of Tomes, 1860.

1896. *Echinomys centralis* Thomas, Ann. and Mag. Nat. Hist., ser. 6, vol. 18, p. 312. October, 1896.

1899. *Proechimys centralis* Allen, Bull. Amer. Mus. Nat. Hist., vol. 12, p. 264. December 26, 1899.

Type Locality.—San Emilio, north end of Lake Nicaragua, Nicaragua.

***Proechimys centralis chiriquinus** Thomas.

1900. *Proechimys centralis chiriquinus* Thomas, Ann. and Mag. Nat. Hist., ser. 7, vol. 5, p. 220. February, 1900.

Type Locality.—Bogava, Chiriqui, Panama. Altitude, 800 feet.

***Proechimys centralis panamensis** Thomas.

1900. *Proechimys centralis panamensis* Thomas, Ann. and Mag. Nat. Hist., ser. 7, vol. 5, p. 220. February, 1900.

Type Locality.—City of Panama, Panama.

Genus HOPLOMYS Allen.

1908. *Hoplomys* Allen, Bull. Amer. Mus. Nat. Hist., vol. 24, p. 649. October 13, 1908. Type, *Hoplomys truei* Allen.

†*Hoplomys goethalsi Goldman.

1912. *Hoplomys goethalsi* Goldman, Smiths. Misc. Coll., vol. 56, No. 36, p. 10. February 19, 1912.

Type Locality.—Rio Indio, near Gatun, Canal Zone, Panama.

Hoplomys truei Allen.

1908. *Hoplomys truei* Allen, Bull. Amer. Mus. Nat. Hist., vol. 24, p. 650. October 13, 1908.

Type Locality.—Lavala, Matagalpa, Nicaragua.

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Subfamily CAPROMYINÆ.

Genus CAPROMYS Desmarest.[1]

1822. *Capromys* DESMAREST, Mém. soc. hist. nat. Paris, vol. 1, p. 43. Type, *Capromys fournieri* DESMAREST = *Isodon pilorides* SAY.

Subgenus CAPROMYS Desmarest.

***Capromys pilorides pilorides** (Say).

1822. *I[sodon] pilorides* SAY, Journ. Acad. Nat. Sci. Philadelphia, vol. 2, p. 333.

1848. *Capromys pilorides* WATERHOUSE, Nat. Hist. of Mamm., vol. 2, p. 287.

1885. *Capromys pilorides* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 600. 1885.

TYPE LOCALITY.—"South America or one of the West Indian islands." (Cuba.)

Capromys pilorides relictus G. M. Allen.

1911. *Capromys pilorides relictus* G. M. ALLEN, Bull. Mus. Comp. Zool., vol. 54, p. 207. July, 1911.

TYPE LOCALITY.—Casas Mountains, Nueva Gerona, Isle of Pines, Cuba.

***Capromys prehensilis prehensilis** Poeppig.

1824. *Capromys prehensilis* POEPPIG, Journ. Acad. Nat. Sci. Philadelphia, vol. 4, p. 11.

1885. *Capromys prehensilis* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 600. 1885.

TYPE LOCALITY.—Wooded parts of southern Cuba.

†*Capromys prehensilis gundlachi Chapman.

1901. *Capromys prehensilis gundlachi* CHAPMAN, Bull. Amer. Mus. Nat. Hist., vol. 14, p. 317. November 12, 1901.

TYPE LOCALITY.—Nueva Gerona, Isle of Pines, Cuba.

***Capromys melanurus** Poey.

1864. *Capromys melanurus* POEY, Monatsber. k. preuss. Akad. Wissensch. Berlin, p. 384.

1885. *Capromys melanurus* TRUE, Proc. U. S. Nat. Mus., vol 7 (1884), p. 600. 1885.

TYPE LOCALITY.—Manzanillo, Cuba.

Capromys elegans Cabrera.

1901. *Capromys elegans* CABRERA, Bol. de la soc. española de hist. nat., Madrid, vol. 1, p. 372. December, 1901.

TYPE LOCALITY.—Unknown; probably Cuba.

[1] Revised by Chapman, Bull. Amer. Mus. Nat. Hist., vol. 14, pp. 313-323, November 21, 1901.

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Subgenus GEOCAPROMYS Chapman.

1901. *Geocapromys* CHAPMAN, Bull. Amer. Mus. Nat. Hist., vol. 14, p. 314. November 12, 1901. Type, *Capromys brownii* FISCHER.

***Capromys brownii** Fischer.

1830. *C[apromys] brownii* FISCHER, Synopsis Mammalium, Addenda, p. 389 (=589).

1885. *Capromys brachyurus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 600. 1885.

1901. *Capromys brownii* CHAPMAN, Bull. Amer. Mus. Nat. Hist., vol. 14, p. 320. November 12, 1901.

TYPE LOCALITY.—Jamaica.

†*Capromys thoracatus (True).

1889. *Capromys brachyurus thoracatus* TRUE, Proc. U. S. Nat. Mus., vol. 11 (1888), p. 469. September 3, 1889.

1901. *Capromys thoracatus* CHAPMAN, Bull. Amer. Mus. Nat. Hist., vol. 14, p. 321. November 12, 1901.

TYPE LOCALITY.—Little Swan Island, Gulf of Honduras.

***Capromys ingrahami** Allen.

1891. *Capromys ingrahami* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 329. August 31, 1891.

TYPE LOCALITY.—Plana Key, Bahama Islands.

Genus PLAGIODONTIA F. Cuvier.

1836. *Plagiodontia* F. CUVIER, Ann. sci. nat., ser. 2, vol. 6, p. 347. Type, *Plagiodontia ædium* F. CUVIER.

Plagiodontia ædium F. Cuvier.

1836. *Plagiodontia ædium* F. CUVIER, Ann. sci. nat., ser. 2, vol. 6, p. 347.

1885. *Plagiodontia ædium* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 600. 1885.

TYPE LOCALITY.—Santo Domingo.

Family DASYPROCTIDÆ.

Genus DASYPROCTA Illiger.

1811. *Dasyprocta* ILLIGER, Prodr. Syst. Mamm. et Avium, p. 93. TYPE.—*Mus aguti* Linnæus.

***Dasyprocta albida** Gray.

1842. *Dasyprocta albida* GRAY, Ann. and Mag. Nat. Hist., vol. 10, p. 264. December, 1842.

1885. *Dasyprocta cristata*, TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 600. 1885.

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Dasyprocta albida—Continued.

1911. *Dasyprocta albida* G. M. ALLEN, Bull. Mus. Comp. Zool., vol. 54, p. 202. July, 1911.

TYPE LOCALITY.—St. Vincent, Lesser Antilles.

***Dasyprocta antillensis** Sclater.

1874. *Dasyprocta antillensis* SCLATER, Proc. Zool. Soc. London, p. 666.

1911. *Dasyprocta antillensis* G. M. ALLEN, Bull. Mus. Comp. Zool., vol. 54, p. 203. July, 1911.

TYPE LOCALITY.—St. Lucia, Lesser Antilles.

Dasyprocta callida Bangs.

1901. *Dasyprocta callida* BANGS, Amer. Nat., vol. 35, p. 635. August, 1901.

TYPE LOCALITY.—San Miguel Island, Panama.

Dasyprocta coibæ Thomas.

1902. *Dasyprocta coibæ* THOMAS, Novitat. Zoologicæ, vol. 9, p. 136. April 10, 1902.

TYPE LOCALITY.—Coiba Island, Panama.

***Dasyprocta isthmica** Alston.

1876. *Dasyprocta isthmica* ALSTON, Proc. Zool. Soc. London, p. 347.

1885. *Dasyprocta isthmica* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 600. 1885.

TYPE LOCALITY.—Colon, Panama.

***Dasyprocta mexicana** Saussure.

1860. *Dasyprocta mexicana* SAUSSURE, Revue et magasin de zoologie, ser. 2, vol. 12, p. 53.

1885. *Dasyprocta mexicana* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 600. 1885.

TYPE LOCALITY.—"Hot zone of Mexico"; probably in the State of Vera Cruz.

***Dasyprocta punctata** Gray.

1842. *Dasyprocta punctata* GRAY, Ann. and Mag. Nat. Hist., vol. 10, p. 264.

1885. *Dasyprocta punctata* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 600. 1885.

TYPE LOCALITY.—South America. (Ranges north to southern Mexico.)

Dasyprocta ruatanica Thomas.

1901. *Dasyprocta ruatanica* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 8, p. 272. October, 1901.

TYPE LOCALITY.—Ruatan Island, Bay of Honduras.

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Genus AGOUTI Lacépède.

1799. *Agouti* LACÉPÈDE, Tableau des divisions, sous-divisions, ordres et genres des mammifères, p. 9 (Published as supplement to Discours d'ouverture et de clôture du cours d'histoire naturelle et tableaux méthodiques des mammifères et des oiseaux). Type, *Mus paca* LINNÆUS.

***Agouti paca virgatus** Bangs.

1885. *Cœlogenys paca* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 600. 1885.

1902. *Agouti paca virgatus* BANGS, Bull. Mus. Comp. Zool., vol. 39, p. 47. April, 1902.

TYPE LOCALITY.—Divala, Chiriqui, Panama.

Family ERETHIZONTIDÆ.

Subfamily ERETHIZONTINÆ.

Genus ERETHIZON F. Cuvier.

1822. *Erethizon* F. CUVIER, Mém. mus. hist. nat., Paris, vol, 9, p. 426. Type, *Hystrix dorsata* LINNÆUS.

***Erethizon dorsatum dorsatum** (Linnæus).

1758. [*Hystrix*] *dorsata* LINNÆUS, Syst. Nat., ed. 10, vol. 1, p. 57.

1822. *E*[*rethizon*] *dorsatum* F. CUVIER, Mém. mus. hist. nat., Paris, vol. 9, p. 432.

1885. *Erethizon dorsatus dorsatus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 600. 1885.

TYPE LOCALITY.—Eastern Canada.

***Erethizon dorsatum picinum** Bangs.

1900. *Erethizon dorsatus picinus* BANGS, Proc. New England Zool. Club, vol. 2, p. 37. September 20, 1900.

TYPE LOCALITY.—L'Anse au Loup, Strait of Belle Isle, Labrador.

***Erethizon epixanthum epixanthum** Brandt.

1835. *Erethizon epixanthus* BRANDT, Mém. Acad. Imp. Sci., St. Pétersbourg, ser. 6, vol. 3, p. 390.

1885. *Erethizon dorsatus epixanthus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 600. 1885.

TYPE LOCALITY.—Northwestern America.

†*Erethizon epixanthum couesi Mearns.

1897. *Frethizon epixanthus couesi* MEARNS, Proc. U. S. Nat. Mus., vol. 19, p. 723. July 30, 1897.

TYPE LOCALITY.—Fort Whipple, Yavapai County, Arizona.

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***Erethizon epixanthum nigrescens** Allen.

1903. *Erethizon epixanthus nigrescens* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 19, p. 558. October 10, 1903.

TYPE LOCALITY.—Shesley River, British Columbia, Canada.

†*Erethizon epixanthum myops Merriam.

1900. *Erethizon epixanthus myops* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 27. March 14, 1900.

TYPE LOCALITY.—Portage Bay, Alaska Peninsula, Alaska.

Genus COENDOU Lacépède.

1799. *Coendou* LACÉPÈDE, Tableau des divisions, sous-divisions, ordres et genres des mammifères, p. 11 (Published as supplement to Discours d' ouverture et de clôture du cours d'histoire naturelle et tableaux méthodiques des mammifères et des oiseaux). Type, *Hystrix prehensilis* LINNÆUS.

***Coendou lænatum** Thomas.

1903. *Coendou lænatus* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 11, p. 381. April, 1903.

TYPE LOCALITY.—Boquete, Chiriqui, Panama.

***Coendou mexicanum mexicanum** (Kerr).

1792. *Hystrix mexicana* KERR, Anim. Kingd., vol. 1, p. 214.

1885. *Synetheres mexicanus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 600. 1885.

1901. *Coendou mexicanum* MILLER and REHN, Proc. Boston Soc. Nat. Hist., vol. 30, p. 173. December 27, 1901.

TYPE LOCALITY.—Mountains of Mexico.

Coendou mexicanum yucataniæ Thomas.

1902. *Coendou mexicanus yucataniæ* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 10, p. 249. September, 1902.

TYPE LOCALITY.—Yucatan (probably near Izamal).

Coendou pallidum (Waterhouse).

1848. *Cercolabes pallidus* WATERHOUSE, Nat. Hist. of Mamm., vol. 2, p. 434.

1897. [*Coendu*] *pallidus* TROUESSART, Catal. Mamm., viv. foss., p. 622.

TYPE LOCALITY.—"Said to be . . . the West Indies."

Coendou rothschildi Thomas.

1902. *Coendou rothschildi* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 10, p. 169. August, 1902.

TYPE LOCALITY.—Sevilla Island, off Chiriqui, Panama.

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Family APLODONTIIDÆ.

Genus APLODONTIA Richardson.

1829. *Aplodontia* RICHARDSON, Zool. Journ., vol. 4, p. 334. January, 1829. Type, *Aplodontia leporina* RICHARDSON = *Anisonyx rufa* RAFINESQUE.

†*Aplodontia major major Merriam.

1886. *Aplodontia major* MERRIAM, Ann. New York Acad. Sci., vol. 3, p. 316. May, 1886.

TYPE LOCALITY.—Sierra Nevada Mountains, Placer County, California.

†*Aplodontia major rainieri Merriam.

1899. *Aplodontia major rainieri* MERRIAM, Proc. Biol. Soc. Washington, vol. 13, p. 21. January 31, 1899.

TYPE LOCALITY.—Paradise Creek, south side of Mount Rainier, Lewis County, Washington. Altitude, 5,200 feet.

†*Aplodontia olympica Merriam.

1899. *Aplodontia olympica* MERRIAM, Proc. Biol. Soc. Washington, vol. 13, p. 20. January 31, 1899.

TYPE LOCALITY.—Queniult Lake, Chehalis County, Washington.

†*Aplodontia pacifica Merriam.

1899. *Aplodontia pacifica* MERRIAM, Proc. Biol. Soc. Washington, vol. 13, p. 19. January 31, 1899.

TYPE LOCALITY.—Newport, mouth of Yaquina Bay, Lincoln County, Oregon.

†*Aplodontia phæa Merriam.

1899. *Aplodontia phæa* MERRIAM, Proc. Biol. Soc. Washington, vol. 13, p. 20. January 31, 1899.

TYPE LOCALITY.—Point Reyes, Marin County, California.

*Aplodontia rufa (Rafinesque).

1817. *Anisonyx? rufa* RAFINESQUE, Amer. Monthly Magazine, vol. 2, p. 45. November, 1817.

1885. *Haplodon rufus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 596. 1885.

1886. *Aplodontia rufa* MERRIAM, Ann. New York Acad. Sci., vol. 3, p. 316. May, 1886.

TYPE LOCALITY.—Neighborhood of the Columbia River, Oregon.

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Family SCIURIDÆ.

Genus MARMOTA Blumenbach.

1779. *Marmota* BLUMENBACH, Handb. d. Naturgesch., vol. 1, p. 79. Type, *Mus marmota* LINNÆUS.

***Marmota caligata** (Eschscholtz).

1829. *Arctomys caligatus* ESCHSCHOLTZ, Zool. Atlas, part 2, p. 1, pl. 6.

1885. *Arctomys pruinosus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 593. (Not of Gmelin.)

1903. *Marmotta caligata* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 19, p. 539. October 10, 1903.

TYPE LOCALITY.—Near Bristol Bay, Alaska.

For use of the name *caligata* in place of *pruinosa* see Tyrrell, Proc. Canadian Inst., Toronto, ser. 3, vol. 6, p. 88, October, 1888.

†*Marmota dacota (Merriam).

1889. *Arctomys dacota* MERRIAM, North Amer. Fauna, No. 2, p. 8. October 30, 1889.

1904. [*Marmota*] *dacota* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 344.

TYPE LOCALITY.—Custer, Black Hills, South Dakota.

***Marmota engelhardti** Allen.

1905. *Marmota engelhardti* ALLEN, Mus. Brooklyn Acad. Arts and Sci., Science Bull., vol. 1, p. 120. March 31, 1905.

TYPE LOCALITY.—Briggs Meadows, Beaver Range Mountains, Beaver County, Utah.

***Marmota flaviventer flaviventer** (Audubon and Bachman).

1841. *Arctomys flaviventer* AUDUBON and BACHMAN, Proc. Acad. Nat. Sci. Philadelphia, p. 99.

1885. *Arctomys flaviventer* TRUE, Proc. U. S. Nat. Mus., vol. 7, (1884), p. 593. 1885.

TYPE LOCALITY.—"Mountains between Texas and California."

***Marmota flaviventer avara** (Bangs).

1899. *Arctomys flaviventer avarus* BANGS, Proc. New England Zool. Club, vol. 1, p. 68. July 31, 1899.

1904. [*Marmota flaviventer*] *avarus* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 344.

TYPE LOCALITY.—Okanagan, British Columbia, Canada.

Marmota ignava (Bangs).

1899. *Arctomys ignavus* BANGS, Proc. New England Zool. Club, vol. 1, p. 13. February 28, 1899.

TYPE LOCALITY.—Black Bay, Straits of Belle Isle, Labrador.

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***Marmota monax monax** (Linnæus).

1758. [*Mus*] *monax* LINNÆUS, Syst. Nat., ed. 10, vol. 1, p. 60.

1885. *Arctomys monax* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 593. 1885.

1904. [*Marmota*] *monax* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 344.

TYPE LOCALITY.—Maryland.

***Marmota monax canadensis** (Erxleben).

1777. [*Glis*] *canadensis* ERXLEBEN, Syst. Regni Anim., vol. 1, p. 363. Based primarily on the Quebec Marmot of Pennant.

1778. *Mus empetra* PALLAS, Nov. Sp. Quadr. Glir. Ord., p. 75. Based primarily on the Quebec Marmot of Pennant.

1898. *Arctomys monax canadensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 456. November 10, 1898.

1908. *Arctomys monax canadensis* PREBLE, North Amer. Fauna, No. 27, p. 159. October 27, 1908.

1904. [*Marmota monax*] *canadensis* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 344.

TYPE LOCALITY.—Hudson Bay.

Marmota ochracea Swarth.

1911. *Marmota ochracea* SWARTH, Univ. California Publ. Zool., vol. 7, p. 203. February 18, 1911.

TYPE LOCALITY.—Forty-mile Creek, Alaska.

†*Marmota olympus (Merriam).

1898. *Arctomys olympus* MERRIAM, Proc. Acad. Nat. Sci. Philadelphia, p. 352. October 4, 1898.

TYPE LOCALITY.—Timber line at head of Soleduc River, Olympic Mountains, Clallam County, Washington.

†*Marmota sibila Hollister.

1912. *Marmota sibila* HOLLISTER, Smiths. Misc. Coll., vol. 56, No. 35, p. 1. February 7, 1912.

TYPE LOCALITY.—Head of Moose Pass Branch of the Smoky River, Alberta, Canada. Altitude, 7,200 feet.

Marmota vancouverensis Swarth.

1911. *Marmota vancouverensis* SWARTH, Univ. California Publ. Zool., vol. 7, p. 201. February 18, 1911.

TYPE LOCALITY.—Mount Douglas, Vancouver Island, British Columbia.

Marmota vigilis Heller.

1909. *Marmota vigilis* HELLER, Univ. California Publ. Zool., vol. 5, p. 248. February 18, 1909.

TYPE LOCALITY.—West shore of Glacier Bay, Alaska.

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Genus CYNOMYS Rafinesque.

1817. *Cynomys* RAFINESQUE, Amer. Monthly Magazine, vol. 2, p. 45. November, 1817. Type, The Barking Squirrel of Lewis and Clark = *Arctomys ludovicianus* ORD.

***Cynomys arizonensis** Mearns.

1890. *Cynomys arizonensis* MEARNS, Bull. Amer. Mus. Nat. Hist., vol. 2, p. 305. February 21, 1890.

TYPE LOCALITY.—Point of Mountain, near Wilcox, Cochise County, Arizona.

†*Cynomys gunnisoni (Baird).

1855. *Spermophilus gunnisoni* BAIRD, Proc. Acad. Nat. Sci. Philadelphia, vol. 7, p. 334. April, 1855.

1857. *Cynomys gunnisoni* BAIRD, Mamm. N. Amer., p. 335.

1885. *Cynomys columbianus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 593. 1885.

1890. *Cynomys gunnisoni* MERRIAM, North Amer. Fauna, No. 3, p. 58. September 11, 1890.

1891. *Cynomys gunnisoni* MERRIAM, North Amer. Fauna, No. 5, p. 40. July 30, 1891.

TYPE LOCALITY.—Cochetopa Pass, Saguache County, Colorado.

†*Cynomys leucurus Merriam.

1890. *Cynomys leucurus* MERRIAM, North Amer. Fauna, No. 4, p. 33. October 8, 1890.

TYPE LOCALITY.—Fort Bridger, Sweetwater County, Wyoming.

According to Allen (Bull. Amer. Mus. Nat. Hist., vol. 10, pp. 455–456, November 10, 1898), this should stand as *Cynomys lewisii* (*Arctomys lewisii* AUDUBON and BACHMAN, Quadr. N. Amer., vol. 3, p. 32, 1853; type locality, "Oregon").

***Cynomys ludovicianus** (Ord).

1815. *Arctomys ludovicianus* ORD, Guthrie's Geography, 2d Amer. ed., vol. 2, p. 292. Description on page 302.

1857. *Cynomys ludovicianus* BAIRD, Mamm. N. Amer., p. 331.

1885. *Cynomys ludovicianus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 593. 1885.

TYPE LOCALITY.—"Missouri and throughout Louisiana."

†*Cynomys mexicanus Merriam.

1892. *Cynomys mexicanus* MERRIAM, Proc. Biol. Soc. Washington, vol. 7, p. 157. July 27, 1892.

TYPE LOCALITY.—La Ventura, State of Coahuila, Mexico.

***Cynomys parvidens** Allen.

1905. *Cynomys parvidens* ALLEN, Mus. Brooklyn Acad. Arts and Sci., Science Bull., vol. 1, p. 119. March 31, 1905.

TYPE LOCALITY.—Buckskin Valley, Iron County, Utah.

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***Cynomys pyrrotrichus** Elliot.

1905. *Cynomys pyrrotrichus* ELLIOT, Proc. Biol. Soc. Washington, vol. 18, p. 139. April 18, 1905.

TYPE LOCALITY.—White Horse Spring, Woods County, Oklahoma.

Genus CITELLUS Oken.[1]

1816. *Citellus* OKEN, Lehrbuch der Zoologie, vol. 2, p. 842.

1825. *Spermophilus* CUVIER, Dents des Mamm., p. 160.

1902. *Citellus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 16, p. 375. October 11, 1902.

Type, *Mus citellus* LINNÆUS.

†*Citellus adocetus Merriam.

1903. *Citellus adocetus* MERRIAM, Proc. Biol. Soc. Washington, vol. 16, p. 79. May 29, 1903.

TYPE LOCALITY.—La Salada, 40 miles south of Uruapan, Michoacan, Mexico.

***Citellus annulatus** (Audubon and Bachman).

1842. *Spermophilus annulatus* AUDUBON and BACHMAN, Journ. Acad. Nat. Sci. Philadelphia, vol. 8, pt. 2, p. 319.

1885. *Spermophilus annulatus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 595. 1885.

1903. *Citellus annulatus* MERRIAM, Proc. Biol. Soc. Washington, vol. 16, p. 79. May 29, 1903.

TYPE LOCALITY.—Unknown; probably in western Mexico.

†*Citellus annulatus goldmani (Merriam).

1902. *Spermophilus annulatus goldmani* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 69. March 22, 1902.

1903. *Citellus annulatus goldmani* MILLER and REHN, Proc. Boston Soc. Nat. Hist., vol. 31, p. 74. August 27, 1903.

TYPE LOCALITY.—Santiago, Territory of Tepic, Mexico.

†*Citellus armatus (Kennicott).

1863. *Spermophilus armatus* KENNICOTT, Proc. Acad. Nat. Sci. Philadelphia, p. 158.

1891. *Spermophilus armatus* MERRIAM, North Amer. Fauna, No. 5, p. 38. July 30, 1891.

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[1] The following subgenera have been recently used for various members of this genus: *Otospermophilus* BRANDT (Bull. Class. Phys.-Math. Acad. Imp. Sci. St. Petersbourg, vol. 2, p. 379, 1849), for *C. grammurus* and its allies (regarded as a distinct genus by Mearns, Bull. U. S. Nat. Mus., No. 56, p. 314, March 15, 1907); *Xerospermophilus* MERRIAM (Proc. Biol. Soc. Washington, vol. 7, p. 27, April 13, 1893), for *C. mohavensis* (type) and the allied species of the *spilosoma* group; *Ictidomoides* MEARNS (Bull. U. S. Nat. Mus., No. 56, p. 328, March 15, 1907), for *C. mexicanus;* and *Ictidomys* ALLEN (Monogr. N. Amer. Rodentia, p. 821, August, 1877), for *C. tridecemlineatus* (see Merriam, Science, n. s., vol. 2, p. 418, September 27, 1895). Until the entire genus, including the Old World species, can be definitely revised it seems preferable to disregard these subordinate groups.

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Citellus armatus—Continued.

1904. [*Citellus*] *armatus* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 339.

TYPE LOCALITY.—Foothills of the Uinta Mountains, near Fort Bridger, Sweetwater County, Wyoming.

†***Citellus barrowensis** (Merriam).

1900. *Spermophilus barrowensis* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 19. March 14, 1900.

1903. *C[itellus] barrowensis* OSGOOD, Proc. Biol. Soc. Washington, vol. 16, p. 25. March 19, 1903.

TYPE LOCALITY.—Point Barrow, Alaska.

Regarded by Preble (North Amer. Fauna, No. 27, p. 162, October 28, 1908) as identical with *Citellus parryi kennicottii*.

†***Citellus beldingi** (Merriam).

1888. *Spermophilus beldingi* MERRIAM, Ann. New York Acad. Sci., vol. 4, p. 317. December 28, 1888.

1904. [*Citellus*] *beldingi* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 339.

TYPE LOCALITY.—Donner, Placer County, California.

†***Citellus beringensis** (Merriam).

1900. *Spermophilus beringensis* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 20. March 14, 1900.

1904. [*Citellus*] *beringensis* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 338.

TYPE LOCALITY.—Cape Lisburne (Coal Veins), Alaska.

†***Citellus canescens** (Merriam).

1890. *Spermophilus canescens* MERRIAM, N. Amer. Fauna, No. 4, p. 38. October 8, 1890.

1904. [*Citellus*] *canescens* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 341.

TYPE LOCALITY.—Wilcox, Cochise County, Arizona.

Regarded by Mearns (Mamm. Mex. Boundary, p. 333, April 13, 1907) as a color phase of *C. spilosoma macrospilotus*.

***Citellus chlorus** Elliot.

1903. *Citellus chlorus* ELLIOT, Field Columb. Mus., publ. 87, zool. ser., vol. 3, p. 242. December, 1903.

TYPE LOCALITY.—Palm Springs, Riverside County, California.

***Citellus columbianus columbianus** (Ord).

1815. *Arctomys columbianus* ORD, Guthrie's Geography, 2d Am. ed., vol. 2, p. 292. Described on page 303.

1885. *Spermophilus empetra erythroglutæus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 594. 1885. (Part).

1891. *Spermophilus columbianus* MERRIAM, North Amer. Fauna, No. 5, p. 39. July 30, 1891.

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Citellus columbianus columbianus—Continued.

1903. *Citellus columbianus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 19, p. 536. October 10, 1903.

TYPE LOCALITY.—Camas prairie between the forks of the Clearwater and Kooskooskie, about 40 miles from Moscow, Lincoln County, Idaho. (See Merriam, North Amer. Fauna, No. 5, p. 41, July 30, 1891.)

Citellus columbianus albertæ Allen.

1903. *Citellus columbianus albertæ* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 19, p. 537. October 10, 1903.

TYPE LOCALITY.—Canadian National Park, Alberta.

†***Citellus cryptospilotus** (Merriam).

1890. *Spermophilus cryptospilotus* MERRIAM, N. Amer. Fauna, No. 3, p. 57. September 11, 1890.

1904. [*Citellus*] *cryptospilotus* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 341.

TYPE LOCALITY.—Tenebito Wash, Painted Desert, Coconino County, Arizona.

†***Citellus elegans** (Kennicott).

1863. *Spermophilus elegans* KENNICOTT, Proc. Acad. Nat. Sci. Philadelphia, p. 158.

1885. *Spermophilus richardsoni townsendi* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 594. 1885. (Not *S. townsendii* BACHMAN, 1839.)

1891. *Spermophilus elegans* MERRIAM, North Amer. Fauna, No. 5, p. 39. July 30, 1891.

1904. [*Citellus*] *elegans* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 339.

TYPE LOCALITY.—Fort Bridger, Sweetwater County, Wyoming.

***Citellus eremonomus** Elliot.

1903. *Citellus eremonomus* ELLIOT, Field Columb. Mus., publ. 87, zool. ser., vol. 3, p. 243. December, 1903.

TYPE LOCALITY.—Furnace Creek, Death Valley, Inyo County, California.

***Citellus erythrogluteius** (Richardson).

1839. *Arctomys parryi* var. *β. erythrogluteia* RICHARDSON, Fauna Boreali-Americana, vol. 1, p. 161.

1903. *Citellus erythrogluteius* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 19, p. 534. October 10, 1903.

TYPE LOCALITY.—Head of Elk [-Athabaska] River, Alberta.

Regarded by Preble (North Amer. Fauna, No. 27, p. 164–165, October 28, 1908) as identical with *C. columbianus*.

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***Citellus franklinii** (Sabine).

1822. *Arctomys franklinii* SABINE, Trans. Linn. Soc., vol. 13, p. 587.

1885. *Spermophilus franklini* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 594. 1885.

1904. [*Citellus*] *franklini* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 342.

TYPE LOCALITY.—Vicinity of Carlton House, Saskatchewan, Canada. (See Preble, North Amer. Fauna, No. 27, p. 165, October 26, 1908.)

***Citellus grammurus grammurus** (Say).

1823. *S[ciurus] grammurus* SAY, Long's Exped. Rocky Mountains, vol. 2, p. 72.

1885. *Spermophilus grammurus grammurus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 594. 1885.

1903. [*Citellus*] *grammurus* MERRIAM, Proc. Biol. Soc. Washington, vol. 16, p. 77. May 29, 1903.

TYPE LOCALITY.—Purgatory Creek, Arkansas River, near Bent Canyon, Las Animas County, Colorado.

***Citellus grammurus atricapillus** (Bryant).

1889. *Spermophilus grammurus atricapillus* BRYANT, Proc. California Acad. Sci., ser. 2, vol. 2, p. 26. June 20, 1889.

1904. [*Citellus grammurus*] *atricapillus* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 336.

TYPE LOCALITY.—Comondu, Lower California, Mexico.

***Citellus grammurus beecheyi** (Richardson).

1829. *Arctomys* (*Spermophilus*) *beecheyi* RICHARDSON, Fauna Boreali-Americana, vol. 1, p. 170.

1885. *Spermophilus grammurus beecheyi* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 594. 1885.

1904. [*Citellus grammurus*] *beecheyi* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 336.

TYPE LOCALITY.—"Neighborhood of San Francisco and Monterey, California."

Regarded by Merriam (Proc. Biol. Soc. Washington. vol. 8, p. 133, December 28, 1893) as a distinct species.

***Citellus grammurus buckleyi** (Slack).

1861. *Spermophilus buckleyi* SLACK, Proc. Acad. Nat. Sci. Philadelphia, p. 314.

1896. *Spermophilus grammurus buckleyi* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 8, p. 67. April 22, 1896.

1904. [*Citellus grammurus*] *buckleyi* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 336.

TYPE LOCALITY.—Packsaddle Mountain, Llano County, Texas.

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†*Citellus grammurus couchii (Baird).

1855. *Spermophilus couchii* BAIRD, Proc. Acad. Nat. Sci. Philadelphia, p. 332.

1896. *S[permophilus] grammurus couchii* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 8, p. 68. April 22, 1896.

TYPE LOCALITY.—Santa Catarina, State of Nuevo Leon, Mexico.

*Citellus grammurus douglasii (Richardson).

1829. *Arctomys (Spermophilus) douglasii* RICHARDSON, Fauna Boreali-Americana, vol. 1, p. 172.

1885. *Spermophilus grammurus douglassi* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 594. 1885.

1904. [*Citellus grammurus*] *douglasi* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 336.

TYPE LOCALITY.—Banks of the Columbia River, Oregon.

†*Citellus grammurus fisheri (Merriam).

1893. *Spermophilus beecheyi fisheri* MERRIAM, Proc. Biol. Soc. Washington, vol. 8, p. 133. December 28, 1893.

1904. [*Citellus grammurus*] *fisheri* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 336.

TYPE LOCALITY.—Kern Valley, 25 miles above Kernville, Tulare County, California.

Citellus grammurus rupestris Allen.

1903. *Citellus (Otospermophilus) grammurus rupestis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 19, p. 595. November 12, 1903.

TYPE LOCALITY.—Rio Sestin, northwest Durango, Mexico.

†*Citellus grammurus utah Merriam.

1903. *Citellus grammurus utah* MERRIAM, Proc. Biol. Soc. Washington, vol. 16, p. 77. May 29, 1903.

TYPE LOCALITY.—Foot of Wasatch Mountains, near Ogden, Weber County, Utah.

*Citellus mexicanus mexicanus (Erxleben).

1777. [*Sciurus*] *mexicanus* ERXLEBEN, Syst. Regni Anim., vol. 1, p. 428.

1843. *Spermophilus mexicanus* WAGNER, Schreber's Säugthiere, Suppl., vol. 3, p. 250.

1885. *Spermophilus mexicanus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 594. 1885.

1903. *Citellus mexicanus* MERRIAM, Proc. Biol. Soc. Washington, vol. 16, p. 80. May 29, 1903.

TYPE LOCALITY.—South-central Mexico.[1]

[1] The name *Sciurus mexicanus* was restricted by Lichtenstein (Darstellung neuer oder wenig bekannter Säugethiere, text accompanying pl. 31, 1827–1834) to the animal occurring at Toluca, Mexico. See Mearns, Proc. U. S. Nat. Mus., vol. 18, p. 443, May 23, 1896.

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†*Citellus mexicanus parvidens (Mearns).

1896. *Spermophilus mexicanus parvidens* MEARNS, Preliminary diagnoses of new mammals from the Mexican border of the United States, p. 1. March 25, 1896. (Reprint: Proc. U. S. Nat. Mus., vol. 18, p. 443. May 23, 1896.)

1904. [*Citellus mexicanus*] *parvidens* ELLIOT, Land and Sea Mamm. Middle Amer. and W. I., p. 146.

TYPE LOCALITY.—Fort Clark, Kinney County, Texas.

†*Citellus mohavensis (Merriam).

1889. *Spermophilus mohavensis* MERRIAM, North Amer. Fauna, No. 2, p. 15. October 30, 1889.

1904. [*Citellus*] *mohavensis* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 341.

TYPE LOCALITY.—Mohave River, San Bernardino County, California.

†*Citellus mollis mollis (Kennicott.)

1863. *Spermophilus mollis* KENNICOTT, Proc. Acad. Nat. Sci. Philadelphia, p. 158.

1885. *Spermophilus mollis* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 594. 1885.

1904. [*Citellus*] *mollis* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 339.

TYPE LOCALITY.—Camp Floyd, near Fairfield, Wasatch County, Utah.

†*Citellus mollis canus (Merriam.)

1898. *Spermophilus mollis canus* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 70. March 24, 1898.

1904. [*Citellus mollis*] *canus* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 339.

TYPE LOCALITY.—Antelope, Wasco County, Oregon.

†*Citellus mollis stephensi (Merriam.)

1898. *Spermophilus mollis stephensi* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 69. March 24, 1898.

1904. [*Citellus mollis*] *stephensi* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 339.

TYPE LOCALITY.—Queen Station, near head of Owens Valley, Esmeralda County, Nevada.

†*Citellus mollis yakimensis (Merriam.)

1898. *Spermophilus mollis yakimensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 70. March 24, 1898.

1904. [*Citellus mollis*] *yakimensis* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 339.

TYPE LOCALITY.—Mabton, Yakima County, Washington.

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†*Citellus nebulicola Osgood.

1903. *Citellus nebulicola* Osgood, Proc. Biol. Soc. Washington, vol. 16, p. 26. March 19, 1903.

Type Locality.—Nagai Island, Shumagin Islands, Alaska.

†*Citellus neglectus (Merriam).

1889. *Spermophilus neglectus* Merriam, North Amer. Fauna, No. 2, p. 17. October 30, 1889.

1904. [*Citellus*] *neglectus* Trouessart, Catal. Mamm. viv. foss., suppl., p. 341.

Type Locality.—Dolans Spring, Mohave County, Arizona.

*Citellus nesioticus Elliot.

1904. *Citellus nesioticus* Elliot, Field Columb. Mus., publ. 90, zool. ser., vol. 3, p. 263. March 8, 1904.

Type Locality.—Santa Catalina Island, Santa Barbara Islands, California.

†*Citellus obsoletus (Kennicott).

1863. *Spermophilus obsoletus* Kennicott, Proc. Acad. Nat. Sci. Philadelphia, p. 157.

1885. *Spermophilus obsoletus* True, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 594. 1885.

1904. [*Citellus*] *obsoletus* Trouessart, Catal. Mamm. viv. foss., suppl., p. 340.

Type Locality.—Extreme western Nebraska.

†*Citellus oregonus (Merriam).

1898. *Spermophilus oregonus* Merriam, Proc. Biol. Soc. Washington, vol. 12, p. 69. March 24, 1898.

1904. [*Citellus*] *oregonus* Trouessart, Catal. Mamm. viv. foss., suppl., p. 339.

Type Locality.—Swan Lake Valley, Klamath Basin, Oregon.

†*Citellus osgoodi (Merriam).

1900. *Spermophilus osgoodi* Merriam, Proc. Washington Acad. Sci., vol. 2, p. 18. March 14, 1900.

1903. [*Citellus*] *osgoodi* Osgood, Proc. Biol. Soc. Washington, vol. 16, p. 27. March 19, 1903.

Type Locality.—Fort Yukon, Alaska.

*Citellus parryii parryii (Richardson).

1825. *Arctomys parryii* Richardson, Appendix to Parry's second voyage, p. 316.

1885. *Spermophilus empetra empetra* True, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 594. 1885.

1902. *Spermophilus parryi* Preble, North Amer. Fauna, No. 22, p. 46. October 31, 1902.

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***Citellus parryii parryii**—Continued.

1903. *Citellus parryi* MILLER and REHN, Proc. Boston Soc. Nat. Hist., vol. 31, p. 75. August 27, 1903.

TYPE LOCALITY.—Five Hawser Bay, Lyon Inlet, Melville Peninsula, Franklin, Canada.

***Citellus parryii kennicottii** (Ross).

1861. *Arctomys kennicottii* ROSS, Canadian Nat. and Geol., vol. 6, p. 434.

1908. *Citellus parryi kennicotti* PREBLE, North Amer. Fauna, No. 27, p. 162. October 26, 1908.

TYPE LOCALITY.—Near Fort Good Hope, Lower Mackenzie region, Mackenzie, Canada.

†*Citellus parryii kodiacensis (Allen).

1874. *Spermophilus parryi* var. *kodiacensis* ALLEN, Proc. Boston Soc. Nat. Hist., vol. 16, p. 292.

1885. *Spermophilus empetra kodiacensis* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 594. 1885.

1904. [*Citellus parryi*] *kodiacensis* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 338.

TYPE LOCALITY.—Kodiak Island, Alaska.

***Citellus parryii phæognathus** (Richardson).

1829. *Arctomys parryi* var. *phæognatha* RICHARDSON, Fauna Boreali-Americana, vol. 1, p. 161.

1898. *Spermophilus empetra phæognathus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 454. November 10, 1898.

TYPE LOCALITY.—Hudson Bay.

†*Citellus perotensis (Merriam).

1893. *Spermophilus perotensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 8, p. 131. December 28, 1893.

1904. [*Citellus*] *perotensis* ELLIOT, Land and Sea Mamm. Middle Amer. and W. I., p. 145.

TYPE LOCALITY.—Perote, State of Vera Cruz, Mexico.

†*Citellus plesius plesius (Osgood).

1900. *Spermophilus empetra plesius* OSGOOD, North Amer. Fauna, No. 19, p. 29. October 6, 1900.

1903. *C[itellus] plesius* OSGOOD, Proc. Biol. Soc. Washington, vol. 16, p. 25. March 19, 1903.

TYPE LOCALITY.—Bennett City, head of Lake Bennett, British Columbia, Canada.

†*Citellus plesius ablusus Osgood.

1903. *Citellus plesius ablusus* OSGOOD, Proc. Biol. Soc. Washington, vol. 16, p. 25. March 19, 1903.

TYPE LOCALITY.—Nushagak, Alaska.

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***Citellus richardsonii** (Sabine).

1822. *Arctomys richardsonii* SABINE, Trans. Linn. Soc., vol. 13, p. 589.

1885. *Spermophilus richardsoni richardsoni* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 594. 1885.

1904. [*Citellus*] *richardsoni* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 338.

TYPE LOCALITY.—Carlton House, Saskatchewan, Canada.

***Citellus sonoriensis** (Ward).

1891. *Spermophilus sonoriensis* WARD, Amer. Nat., vol. 25, p. 158. February, 1891.

TYPE LOCALITY.—Hermosillo, State of Sonora, Mexico.

Regarded by Merriam (Science, n. s., vol. 7, p. 32, January 7, 1898) as a race of *C. tereticaudus*.

***Citellus spilosoma spilosoma** (Bennett).

1833. *Spermophilus spilosoma* BENNETT, Proc. Zool. Soc. London, p. 40.

1885. *Spermophilus spilosoma* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 594. 1885.

1904. *Citellus spilosoma* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 20, p. 209. May 28, 1904.

TYPE LOCALITY.—"That part of California that adjoins Mexico." Name restricted by Merriam (North Amer. Fauna, No. 4, p. 37, October 8, 1890) to the animal occurring in northern Mexico and extreme western Texas.

†*Citellus spilosoma arens (Bailey).

1902. *Spermophilus spilosoma arens* BAILEY, Proc. Biol. Soc. Washington, vol. 15, p. 118. June 2, 1902.

1903. *Citellus spilosoma arens* MILLER and REHN, Proc. Boston Soc. Nat. Hist., vol. 31, p. 75. August 27, 1903.

TYPE LOCALITY.—El Paso, El Paso County, Texas.

†*Citellus spilosoma annectens (Merriam).

1893. *Spermophilus spilosoma annectens* MERRIAM, Proc. Biol. Soc. Washington, vol. 8, p. 132. December 28, 1893.

1904. [*Citellus spilosoma*] *annectens* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 340.

TYPE LOCALITY.—Padre Island, Cameron County, Texas.

†*Citellus spilosoma macrospilotus (Merriam).

1890. *Spermophilus spilosoma macrospilotus* MERRIAM, North Amer. Fauna, No. 4, p. 38. October 8, 1890.

1901. [*Spermophilus spilosoma*] *microspilotus* ELLIOT, Synopsis Mamm. N. Amer., p. 96. (Accidental renaming of *macrospilotus*.)

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Citellus spilosoma macrospilotus—Continued.

1907. *Citellus spilosoma macrospilotus* MEARNS, Mamm. Mex. Boundary, p. 333. April 13, 1907.

TYPE LOCALITY.—Oracle, Pinal County, Arizona.

†***Citellus spilosoma major** (Merriam).

1890. *Spermophilus spilosoma major* MERRIAM, North Amer. Fauna, No. 4, p. 39. October 8, 1890.

1904. [*Citellus spilosoma*] *major* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 340.

TYPE LOCALITY.—Albuquerque, Bernalillo County, New Mexico.

†***Citellus spilosoma marginatus** (Bailey).

1902. *Spermophilus spilosoma marginatus* BAILEY, Proc. Biol. Soc. Washington, vol. 15, p. 118. June 2, 1902.

1903. *Citellus spilosoma marginatus* MILLER and REHN, Proc. Boston Soc. Nat. Hist., vol. 31, p. 75. August 27, 1903.

TYPE LOCALITY.—Alpine, Brewster County, Texas.

†***Citellus spilosoma obsidianus** (Merriam).

1890. *Spermophilus spilosoma obsidianus* MERRIAM, North Amer. Fauna, No. 3, p. 56. September 11, 1890.

1904. [*Citellus spilosoma*] *obsidianus* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 340.

TYPE LOCALITY.—Cedar belt, northeast of San Francisco Mountain, Coconino County, Arizona.

†***Citellus spilosoma pratensis** (Merriam).

1890. *Spermophilus spilosoma pratensis* MERRIAM, North Amer. Fauna, No. 3, p. 55. September 11, 1890.

1904. [*Citellus spilosoma*] *pratensis* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 340.

TYPE LOCALITY.—Pine plateau at north foot of San Francisco Mountain, Coconino County, Arizona.

***Citellus stonei** Allen.

1903. *Citellus stonei* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 19, p. 537. October 10, 1903.

TYPE LOCALITY.—West end of Alaska Peninsula, opposite Shumagin Islands. (Not Wrangel, Alaska. See Allen, Bull. Amer. Mus. Nat. Hist., vol. 19, p. xvii.)

†***Citellus tereticaudus** (Baird).

1857. *Spermophilus tereticaudus* BAIRD, Mamm. N. Amer., p. 315.

1885. *Spermophilus tereticaudus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 594. 1885.

1904. [*Citellus*] *tereticauda* ELLIOT, Land and Sea Mamm. Middle Amer. and W. I., p. 144.

TYPE LOCALITY.—Old Fort Yuma, Imperial County, California.

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***Citellus townsendii (Bachman).**

1839. *Spermophilus townsendii* BACHMAN, Journ. Acad. Nat. Sci. Philadelphia, vol. 8, p. 61.

1891. *Spermophilus townsendi* MERRIAM, North Amer. Fauna, No. 5, p. 36. July 30, 1891.

1904. [*Citellus*] *townsendi* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 338.

TYPE LOCALITY.—Walla Walla, Walla Walla County, Washington.

***Citellus tridecemlineatus tridecemlineatus (Mitchill).**

1821. *Sciurus tridecem-lineatus* MITCHILL, Med. Repos., n. s., vol. 6 (21), p. 248.

1885. *Spermophilus tridecimlineatus tridecimlineatus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 594. 1885.

1904. [*Citellus*] *tridecimlineatus* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 341.

TYPE LOCALITY.—Central Minnesota. (See Allen, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 338, November 8, 1895.)

†*Citellus tridecemlineatus alleni (Merriam).

1898. *Spermophilus tridecemlineatus alleni* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 71. March 24, 1898.

1904. [*Citellus tridecimlineatus*] *alleni* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 341.

TYPE LOCALITY.—Bighorn Mountains, Wyoming.

***Citellus tridecemlineatus badius (Bangs).**

1899. *Spermophilus tridecemlineatus badius* BANGS, Proc. New England Zool. Club, vol. 1, p. 1. February 8, 1899.

1904. [*Citellus tridecimlineatus*] *badius* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 342.

TYPE LOCALITY.—Stotesbury, Vernon County, Missouri.

***Citellus tridecemlineatus olivaceus (Allen).**

1895. *Spermophilus tridecemlineatus olivaceus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 337. November 8, 1895.

1904. [*Citellus tridecimlineatus*] *olivaceus* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 341.

TYPE LOCALITY.—Custer, Black Hills, South Dakota.

†*Citellus tridecemlineatus pallidus (Allen).

1877. [*Spermophilus tridecemlineatus*] var. *pallidus* ALLEN, Monogr. N. Amer. Rodentia, p. 872. August, 1877.

1885. *Spermophilus tridecimlineatus pallidus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 594. 1885.

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Citellus tridecemlineatus pallidus—Continued.

1904. [*Citellus tridecimlineatus*] *pallidus* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 341.

TYPE LOCALITY.—Plains of the Lower Yellowstone River. (See Allen, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 338, November 8, 1895.)

***Citellus tridecemlineatus parvus** (Allen).

1895. *Spermophilus tridecemlineatus parvus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 337. November 8, 1895.

1904. [*Citellus tridecimlineatus*] *parvus* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 341.

TYPE LOCALITY.—Uncompahgre Indian Reservation, northeastern Utah.

†***Citellus tridecemlineatus texensis** (Merriam).

1898. *Spermophilus tridecemlineatus texensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 71. March 24, 1898.

1904. [*Citellus tridecimlineatus*] *texensis* TROUESSART, Catal. Mamm. viv. foss., suppl., p. 342.

TYPE LOCALITY.—Gainesville, Cooke County, Texas.

***Citellus variegatus** (Erxleben).

1777. [*Sciurus*] *variegatus* ERXLEBEN, Syst. Regni Anim., vol. 1, p. 421.

1898. *Spermophilus variegatus* NELSON, Science, n. s., vol. 8, p. 898. December 23, 1898.

1904. [*Citellus*] *variegatus* ELLIOT, Land and Sea Mamm. Middle Amer. and W. I., p. 148.

TYPE LOCALITY.—South-central Mexico.

Genus EUTAMIAS Trouessart.[1]

1880. *Eutamias* TROUESSART, Catal. mam. viv. et foss., rongeurs, p. 86. Type, *Sciurus striatus asiaticus* GMELIN. (See Allen, Abstract Proc. Linn. Soc. New York, 1893–94, p. 42, July 20, 1894.)

***Eutamias adsitus** Allen.

1905. *Eutamias adsitus* ALLEN, Mus. Brooklyn Inst. Arts and Sci., Science Bull., vol. 1, p. 118. March 31, 1905.

TYPE LOCALITY.—Briggs Meadows, Beaver Range Mountains, Utah. Altitude, 10,000 feet.

[1] A review of the American species of this genus was published by Allen in 1890 (Bull. Amer. Mus. Nat. Hist., vol. 3, pp. 45–116, June, 1890), but so many new forms have been described since then that the paper is no longer a fair presentation of the subject.

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†*Eutamias alpinus (Merriam).

1893. *Tamias alpinus* MERRIAM, Proc. Biol. Soc. Washington, vol. 8, p. 137. December 28, 1893.

1897. *Eutamias alpinus* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 191. July 1, 1897.

TYPE LOCALITY.—Big Cottonwood Meadows, just south of Mount Whitney, Tulare County, California. Altitude, 10,000 feet.

†*Eutamias amœnus amœnus (Allen).

1890. *Tamias amœnus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 90. June, 1890.

1897. *E[utamias] amœnus* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 191. July 1, 1897.

TYPE LOCALITY.—Fort Klamath, Klamath County, Oregon.

†*Eutamias amœnus operarius Merriam.

1905. *Eutamias amœnus operarius* MERRIAM, Proc. Biol. Soc. Washington, vol. 18, p. 164. June 29, 1905.

TYPE LOCALITY.—Gold Hill, Boulder County, Colorado. Altitude, 7,400 feet.

*Eutamias bulleri (Allen).

1889. *Tamias asiaticus bulleri* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 2, p. 173. October 21, 1889.

1901. *Eutamias bulleri* MILLER and REHN, Proc. Boston Soc. Nat. Hist., vol. 30, p. 40. December 27, 1901.

TYPE LOCALITY.—Sierra de Valparaiso, State of Zacatecas, Mexico.

†*Eutamias callipeplus (Merriam).

1893. *Tamias callipeplus* MERRIAM, Proc. Biol. Soc. Washington, vol. 8, p. 136. December 28, 1893.

1897. *E[utamias] callipeplus* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 191. July 1, 1897.

TYPE LOCALITY.—Mount Pinos, Ventura County, California.

Eutamias canescens Allen.

1904. *Eutamias canescens* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 20, p. 208. May 28, 1904.

TYPE LOCALITY.—Guanacevi, Durango, Mexico.

†*Eutamias canicaudus Merriam.

1903. *Eutamias canicaudus* MERRIAM, Proc. Biol. Soc. Washington, vol. 16, p. 77. May 29, 1903.

TYPE LOCALITY.—Spokane, Spokane County, Washington.

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†*Eutamias caniceps Osgood.

1900. *Eutamias caniceps* OSGOOD, North Amer. Fauna, No. 19, p. 28. October 6, 1900.

TYPE LOCALITY.—Lake Lebarge, Yukon, Canada.

Regarded by Preble (North Amer. Fauna, No. 27, p. 169, October 26, 1908) as a subspecies of *Eutamias borealis*.

†*Eutamias caurinus Merriam.

1898. *Eutamias caurinus* MERRIAM, Proc. Acad. Nat. Sci. Philadelphia, p. 352. October 4, 1898.

TYPE LOCALITY.—Timber line near head of Soleduc River, Olympic Mountains, Clallam County, Washington.

†*Eutamias cinereicollis cinereicollis (Allen).

1890. *Tamias cinereicollis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 94. June, 1890.

1901. *Eutamias cinereicollis* MILLER and REHN, Proc. Boston Soc. Nat. Hist., vol. 30, p. 40. December 27, 1901.

TYPE LOCALITY.—San Francisco Mountain, Coconino County, Arizona.

†*Eutamias cinereicollis canipes Bailey.

1902. *Eutamias cinereicollis canipes* BAILEY, Proc. Biol. Soc. Washington, vol. 15, p. 117. June 2, 1902.

TYPE LOCALITY.—Guadalupe Mountains, El Paso County, Texas.

†*Eutamias cooperi (Baird).

1855. *Tamias cooperi* BAIRD, Proc. Acad. Nat. Sci. Philadelphia, p. 334.

1907. *Eutamias cooperi* LYON, Smiths. Misc. Coll., vol. 50, p. 89.

TYPE LOCALITY.—Klickitat Pass, Cascade Mountains, Skamania County, Washington. Altitude, 4,500 feet. (See Cooper, Amer. Nat., vol. 2, p. 531, December, 1868.)

†*Eutamias dorsalis dorsalis (Baird).

1855. *Tamias dorsalis* BAIRD, Proc. Acad. Nat. Sci. Philadelphia, vol. 7, p. 332. April, 1855.

1885. *Tamias asiaticus dorsalis* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 593. 1885.

1897. *E[utamias] dorsalis* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 210. July 1, 1897.

TYPE LOCALITY.—Fort Webster, lat. 32° 47′; long. 108° 4′, Grant County, New Mexico.

†*Eutamias dorsalis utahensis Merriam.

1897. *Eutamias dorsalis utahensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 210. July 1, 1897.

TYPE LOCALITY.—Ogden, Weber County, Utah.

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***Eutamias durangæ** Allen.

1903. *Eutamias durangæ* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 19, p. 594. November 12, 1903.

TYPE LOCALITY.—Arroyo de Bucy, northwest Durango, Mexico.

***Eutamias frater** (Allen).

1890. *Tamias frater* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 88. June, 1890.

1897. [*Eutamias*] *frater* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 192. July 1, 1897.

TYPE LOCALITY.—Donner, Placer County, California.

***Eutamias hindsi** (Gray).

1842. *Tamias hindei* (typ. err. for *hindsi*) GRAY, Ann. and Mag. Nat. Hist., vol. 10, p. 264. December, 1842.

1897. [*Eutamias*] *hindsi* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 194. July 1, 1897.

TYPE LOCALITY.—Near San Francisco, California.

†*Eutamias hopiensis Merriam.

1905. *Eutamias hopiensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 18, p. 165. June 29, 1905.

TYPE LOCALITY.—Keam Canyon, Navajo County, Arizona.

***Eutamias lectus** Allen.

1905. *Eutamias lectus* ALLEN, Mus. Brooklyn Inst. Arts and Sci., Science Bull., vol. 1, p. 117. March 31, 1905.

TYPE LOCALITY.—Beaver Valley, Beaver County, Utah.

†*Eutamias ludibundus Hollister.

1911. *Eutamias ludibundus* HOLLISTER, Smiths. Misc. Coll., vol. 56, No. 26, p. 1. December 5, 1911.

TYPE LOCALITY.—Yellowhead (or Cowdung) Lake, British Columbia, Canada. Altitude, 3,700 feet.

†*Eutamias macrorhabdotes (Merriam).

1886. *Tamias macrorhabdotes* MERRIAM, Proc. Biol. Soc. Washington, vol. 3, p. 25. January 27, 1886.

1901. *Eutamias macrorhabdotes* MILLER and REHN, Proc. Boston Soc. Nat. Hist., vol. 30, p. 41. December 27, 1901.

TYPE LOCALITY.—Nicasio, Marin County, California.

Recognized as distinct by Allen (Bull. Amer. Mus. Nat. Hist., vol. 3, p. 78, June, 1890), but regarded as identical with *E. quadrimaculatus* by Merriam (Proc. Biol. Soc. Washington, vol. 11, p. 203, July 1, 1897).

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***Eutamias merriami merriami** (Allen).

1889. *Tamias asiaticus merriami* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 2, p. 176. October 21, 1889.

1897. *E[utamias] merriami* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 191. July 1, 1897.

TYPE LOCALITY.—San Bernardino Mountains, California.

†*Eutamias merriami meridionalis Nelson and Goldman.

1909. *Eutamias merriami meridionalis* NELSON and GOLDMAN, Proc. Biol. Soc. Washington, vol. 22, p. 23. March 10, 1909.

TYPE LOCALITY.—Aguaje de San Esteban, about 25 miles northwest of San Ignacio, Lower California, Mexico.

***Eutamias minimus minimus** (Bachman).

1839. *Tamias minimus* BACHMAN, Journ. Acad. Nat. Sci. Philadelphia, vol. 8, pt. 1, p. 71.

1885. *Tamias asiaticus pallidus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 593. 1885. (Part.)

1890. *Tamias minimus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 110. June, 1890.

1901. *Eutamias minimus* MILLER and REHN, Proc. Boston Soc. Nat. Hist., vol. 30, p. 42. December 27, 1901.

TYPE LOCALITY.—Near Green River City, Sweetwater County, Wyoming. (See Allen, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 112, June, 1890.)

†*Eutamias minimus caryi Merriam.

1908. *Eutamias minimus caryi* MERRIAM, Proc. Biol. Soc. Washington, vol. 21, p. 143. June 9, 1908.

TYPE LOCALITY.—Medano Ranch, San Luis Valley, Colorado.

†*Eutamias minimus consobrinus (Allen).

1890. *Tamias minimus consobrinus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 112. June, 1890.

1901. *Eutamias minimus consobrinus* MILLER and REHN, Proc. Boston Soc. Nat. Hist., vol. 30, p. 42. December 27, 1901.

TYPE LOCALITY.—Wasatch foothills, near Salt Lake City, Utah.

†*Eutamias minimus melanurus (Merriam).

1890. *Tamias minimus melanurus* MERRIAM, North Amer. Fauna, No. 4, p. 22. October 8, 1890.

1901. *Eutamias minimus melanurus* MILLER and REHN, Proc. Boston Soc. Nat. Hist., vol. 30, p. 42. December 27, 1901.

TYPE LOCALITY.—West side of Snake River, near Blackfoot, Bingham County, Idaho.

Regarded by Merriam (North Amer. Fauna, No. 5, p. 46, July 30, 1891) as a molting phase of *E. minimus pictus*.

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†*Eutamias minimus pictus (Allen).

1890. *Tamias minimus pictus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 115. June, 1890.

1901. *Eutamias minimus pictus* MILLER and REHN, Proc. Boston Soc. Nat. Hist., vol. 30, p. 42. December 27, 1901.

TYPE LOCALITY.—Kelton, Boxelder County, Utah.

Regarded by Merriam (Proc. Biol. Soc. Washington, vol. 11, pp. 190, 191, 194, July 1, 1897) as a distinct species.

Eutamias nexus (Elliot).

1905. *Tamias nexus* ELLIOT, Proc. Biol. Soc. Washington, vol. 18, p. 233. December 9, 1905.

TYPE LOCALITY.—Coyotes, Durango, Mexico.

†*Eutamias obscurus (Allen).

1890. *Tamias obscurus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 70. June, 1890.

1901. *Eutamias obscurus* MILLER and REHN, Proc. Boston Soc. Nat. Hist., vol. 30, p. 42. December 27, 1901.

TYPE LOCALITY.—San Pedro Martir Mountains, Lower California, Mexico.

†*Eutamias oreocetes Merriam.

1897. *Eutamias oreocetes* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 207. July 1, 1897.

TYPE LOCALITY.—Near Summit, Flathead County, Montana.

†*Eutamias pallidus pallidus (Allen).

1874. *Tamias quadrivittatus* var. *pallidus* ALLEN, Proc. Boston Soc. Nat. Hist., vol. 16, p. 289.

1906. *Eutamias pallidus* CARY, Proc. Biol. Soc. Washington, vol. 19, p. 87. June 4, 1906.

TYPE LOCALITY.—Camp Thorne, near present town of Glendive, Yellowstone River, Dawson County, Montana.

†*Eutamias pallidus cacodemus Cary.

1906. *Eutamias pallidus cacodemus* CARY, Proc. Biol. Soc. Washington, vol. 19, p. 89. June 4, 1906.

TYPE LOCALITY.—Sheep Mountain, Big Bad Lands, Fall River County, South Dakota.

†*Eutamias palmeri Merriam.

1897. *Eutamias palmeri* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 208. July 1, 1897.

TYPE LOCALITY.—Charleston Peak, Lincoln County, Nevada. Altitude, 8,000 feet.

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†*Eutamias panamintinus (Merriam).

1893. *Tamias panamintinus* MERRIAM, Proc. Biol. Soc. Washington, vol. 8, p. 134. December 28, 1893.

1897. *E[utamias] panamintinus* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 191. July 1, 1897.

TYPE LOCALITY.—Johnson Canyon, Panamint Mountains, Inyo County, California.

*Eutamias pricei (Allen).

1895. *Tamias pricei* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 333. November 8, 1895.

1901. *Eutamias pricei* MILLER and REHN, Proc. Boston Soc. Nat. Hist., vol. 30, p. 43. December 27, 1901.

TYPE LOCALITY.—Portola, San Mateo County, California.

Regarded by Merriam (Proc. Biol. Soc. Washington, vol. 11, p. 197, July 1, 1897) as a form of *E. merriami* too slightly differentiated to require a name.

*Eutamias quadrimaculatus (Gray).

1867. *Tamias quadrimaculatus* GRAY, Ann. and Mag. Nat. Hist., ser. 3, vol. 20, p. 435. December, 1867.

1897. *E[utamias] quadrimaculatus* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 191. July 1, 1897.

TYPE LOCALITY.—Michigan Bluff, Placer County, California.

*Eutamias quadrivittatus quadrivittatus (Say).

1823. *Sciurus quadrivittatus* SAY, Long's Exped. to Rocky Mountains, vol. 2, p. 45.

1885. *Tamias asiaticus quadrivittatus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 593. 1885.

1901. *Eutamias quadrivittatus* MILLER and REHN, Proc. Boston Soc. Nat. Hist., vol. 30, p. 43. December 27, 1901.

TYPE LOCALITY. "In Colorado, on the Arkansas River, near where it breaks through the foothills." (See Allen, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 98, June, 1890.)

*Eutamias quadrivittatus affinis (Allen).

1890. *Tamias quadrivittatus affinis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 103. June, 1890.

1901. *Eutamias quadrivittatus affinis* MILLER and REHN, Proc. Boston Soc. Nat. Hist., vol. 30, p. 44. December 27, 1901.

TYPE LOCALITY.—Ashcroft, British Columbia, Canada.

Regarded by Merriam (Proc. Biol. Soc. Washington, vol. 11, p. 208, July 1, 1897) as a distinct species.

†*Eutamias quadrivittatus animosus Warren.

1909. *Eutamias quadrivittatus animosus* WARREN, Proc. Biol. Soc. Washington, vol. 22, p. 105. June 25, 1909.

TYPE LOCALITY.—Irwin's Ranch, Tp. 29 S., R. 52 W., Las Animas County, Colorado. Altitude, 5,000 feet.

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***Eutamias quadrivittatus borealis** (Allen).

1877. *Tamias asiaticus borealis* ALLEN, Monogr. N. Amer. Rodentia, p. 793. August, 1877.

1885. *Tamias asiaticus borealis* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 593. 1885.

1901. *Eutamias quadrivittatus borealis* MILLER and REHN, Proc. Boston Soc. Nat. Hist., vol. 30, p. 44. December 27, 1901.

TYPE LOCALITY.—Fort Liard, Mackenzie, Canada. (See Allen, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 109, June, 1890.)

Regarded by Preble (North Amer. Fauna, No. 27, p. 167, October 26, 1908) as a distinct species.

***Eutamias quadrivittatus felix** (Rhoads).

1895. *Tamias quadrivittatus felix* RHOADS, Amer. Nat., vol. 29, p. 941. October, 1895.

1901. *Eutamias quadrivittatus felix* MILLER and REHN, Proc. Boston Soc. Nat. Hist., vol. 30, p. 44. December 27, 1901.

TYPE LOCALITY.—Mount Baker Range, British Columbia, Canada. Altitude, 7,000 feet.

†*Eutamias quadrivittatus gracilis (Allen).

1890. *Tamias quadrivittatus gracilis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 99. June, 1890.

1901. *Eutamias quadrivittatus gracilis* MILLER and REHN, Proc. Boston Soc. Nat. Hist., vol. 30, p. 44. December 27, 1901.

TYPE LOCALITY.—San Pedro, Socorro County, New Mexico.

†*Eutamias quadrivittatus luteiventris (Allen).

1890. *Tamias quadrivittatus luteiventris* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 101. June, 1890.

1901. *Eutamias quadrivittatus luteiventris* MILLER and REHN, Proc. Boston Soc. Nat. Hist., vol. 30, p. 44. December 27, 1901.

TYPE LOCALITY.—Chief Mountain Lake, northwestern Montana.

***Eutamias quadrivittatus neglectus** (Allen).

1890. *Tamias quadrivittatus neglectus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 106. June, 1890.

1901. *Eutamias quadrivittatus neglectus* MILLER and REHN, Proc. Boston Soc. Nat. Hist., vol. 30, p. 44. December 27, 1901.

TYPE LOCALITY.—Eastern shore of Lake Superior, Ontario, Canada.

Regarded by Hollister (Bull. Wisconsin Nat. Hist. Soc., vol. 6, p. 139, October, 1908) as a subspecies of *Eutamias borealis*.

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†*Eutamias senex (Allen).

1890. *Tamias senex* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 83. June, 1890.

1897. *E[utamias] senex* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 191. July 1, 1897.

TYPE LOCALITY.—Summit of Donner Pass, Placer County, California.

†*Eutamias speciosus speciosus (Merriam).

1890. *Tamias speciosus* MERRIAM, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 86. June, 1890.

1897. *E[utamias] speciosus* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 191. July 1, 1897.

TYPE LOCALITY.—San Bernardino Mountains, San Bernardino County, California.

†*Eutamias speciosus inyoensis Merriam.

1897. *Eutamias speciosus inyoensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 208. July 1, 1897.

TYPE LOCALITY.—White Mountains, Inyo County, California.

†*Eutamias townsendii townsendii (Bachman).

1839. *Tamias townsendii* BACHMAN, Journ. Acad. Nat. Sci. Philadelphia, vol. 8, pt. 1, p. 68.

1885. *Tamias asiaticus townsendi* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 593. 1885.

1897. *E[utamias] townsendi* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 192. July 1, 1897.

TYPE LOCALITY.—Lower Columbia River, Oregon.

*Eutamias townsendii littoralis (Elliot).

1903. *Tamias townsendi littoralis* ELLIOT, Field Columb. Mus., publ. 74, zool. ser., vol. 3, p. 153. April, 1903.

TYPE LOCALITY.—Marshfield, Coos County, Oregon.

†*Eutamias townsendii ochrogenys Merriam.

1897. *Eutamias townsendi ochrogenys* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 195. July 1, 1897.

TYPE LOCALITY.—Mendocino, Mendocino County, California.

†*Eutamias umbrinus (Allen).

1890. *Tamias umbrinus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 96. June, 1890.

1901. *Eutamias umbrinus* MILLER and REHN, Proc. Boston Soc. Nat. Hist., vol. 30, p. 45. December 27, 1901.

TYPE LOCALITY.—Uinta Mountains, south of Fort Bridger, Sweetwater County, Wyoming.

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Genus CALLOSPERMOPHILUS Merriam.

1901. *Callospermophilus* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 189. July 1, 1897. Type, *Sciurus lateralis* SAY.

†*Callospermophilus bernardinus (Merriam).

1893. *Spermophilus chrysodeirus brevicaudus* MERRIAM, Proc. Biol. Soc. Washington, vol. 8, p. 134. December 28, 1893. (Not of Brandt, 1844.)

1898. *Spermophilus* (*Callospermophilus*) *bernardinus* MERRIAM, Science, n. s., vol. 8, p. 782. December 2, 1898. (Substitute for *brevicaudus* Merriam.)

1907. *Callospermophilus bernardinus* MEARNS, Mamm. Mex. Boundary, p. 313. April 13, 1907.

TYPE LOCALITY.—San Bernardino Peak, San Bernardino County, California.

†*Callospermophilus castanurus (Merriam).

1890. *Tamias castanurus* MERRIAM, N. Amer. Fauna, No. 4, p. 19. October 8, 1890.

TYPE LOCALITY.—Park City, Wahsatch Mountains, Summit County, Utah. Altitude, 7,000 feet.

†*Callospermophilus chrysodeirus chrysodeirus (Merriam).

1890. *Tamias chrysodeirus* MERRIAM, N. Amer. Fauna, No. 4, p. 19. October 8, 1890.

1901. [*Callospermophilus*] *chrysodeirus* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 126. July 19, 1901.

TYPE LOCALITY.—Fort Klamath, Klamath County, Oregon.

†*Callospermophilus chrysodeirus trinitatis (Merriam).

1901. *Callospermophilus chrysodeirus trinitatis* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 126. July 19, 1901.

TYPE LOCALITY.—Trinity Mountains, east of Hoopa Valley, Humboldt County, California. Altitude, 5,700 feet.

†*Callospermophilus cinerascens (Merriam).

1890. *Tamias cinerascens* MERRIAM, N. Amer. Fauna, No. 4, p. 20. October 8, 1890.

1910. *C*[*allospermophilus*] *cinerascens* WARREN, Mamm. Colorado, p. 168.

TYPE LOCALITY.—Helena, Lewis and Clarke County, Montana. Altitude, 4,500 feet.

*Callospermophilus lateralis lateralis (Say).

1823. *S*[*ciurus*] *lateralis* SAY, Long's Exped. Rocky Mountains, vol. 2, p. 46.

1885. *Tamias lateralis* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 593. 1885.

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Callospermophilus lateralis lateralis—Continued.

1901. *Callospermophilus lateralis* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 563. November 29, 1901.

TYPE LOCALITY.—Arkansas River, a few miles below Canon City, Colorado.

***Callospermophilus lateralis saturatus** (Rhoads).

1895. *Tamias lateralis saturatus* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, p. 43. April 9, 1895.

TYPE LOCALITY.—Lake Keechelus, Kittitas County, Washington.

†***Callospermophilus lateralis tescorum** Hollister.

1911. *Callospermophilus lateralis tescorum* HOLLISTER, Smiths. Misc. Coll., vol. 56, No. 26, p. 2. December 5, 1911.

TYPE LOCALITY.—Head of Moose Pass branch of the Smoky River, Alberta, Canada (near Moose Pass, British Columbia). Altitude, 7,000.

†***Callospermophilus madrensis** Merriam.

1901. *Callospermophilus madrensis* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 563. November 29, 1901.

TYPE LOCALITY.—Sierra Madre, near Guadalupe y Calvo, State of Chihuahua, Mexico. Altitude, 7,000 feet.

***Callospermophilus trepidus** Taylor.

1910. *Callospermophilus trepidus* TAYLOR, Univ. Calif. Publ. Zool., vol. 5, p. 283. February 12, 1910.

TYPE LOCALITY.—Head of Big Creek, Pine Forest Mountains, Humboldt County, Nevada. Altitude, 8,000 feet.

***Callospermophilus wortmani** (Allen).

1895. *Tamias wortmani* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 335. November 8, 1895.

1910. *Callospermophilus wortmani* WARREN, Mamm. Colorado, p. 169.

TYPE LOCALITY.—Kinney Ranch, Bitter Creek, Sweetwater County, Wyoming.

Genus AMMOSPERMOPHILUS Merriam.

1892. *Ammospermophilus* MERRIAM, Proc. Biol. Soc. Washington, vol. 7, p. 27. April 13, 1892. Type, *Tamias leucurus* MERRIAM.

***Ammospermophilus harrisii harrisii** (Audubon and Bachman).

1854. *Spermophilus harrisii* AUDUBON and BACHMAN, Quadr. N. Amer., vol. 3, p. 267.

1885. *Tamias harrisi* TRUE, Proc. U. S. Nat. Mus., vol 7 (1884), p. 594. 1885.

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Ammospermophilus harrisii harrisii—Continued.

1907. *Ammospermophilus harrisi* MEARNS, Mamm. Mex. Boundary, p. 303. April 13, 1907.

TYPE LOCALITY.—Unknown. (See Merriam, North Amer. Fauna, No. 2, pp. 19–20, October 30, 1889.)

†***Ammospermophilus harrisii saxicola** (Mearns).

1896. *Spermophilus harrisii saxicolus* MEARNS, Preliminary diagnoses of new mammals from the Mexican border of the United States, p. 2. March 25, 1896. (Reprint: Proc. U. S. Nat. Mus., vol. 18, p. 444. May 23, 1896.)

1907. *Ammospermophilus harrisi saxicolus* MEARNS, Mamm. Mex. Boundary, p. 306. April 13, 1907.

TYPE LOCALITY.—Tinajas Altas, Gila Mountains, Yuma County, Arizona.

†***Ammospermophilus interpres** (Merriam).

1890. *Tamias interpres* MERRIAM, North Amer. Fauna, No. 4, p. 21. October 8, 1890.

1905. *Ammospermophilus interpres* BAILEY, North Amer. Fauna, No. 25, p. 81. October 24, 1905.

TYPE LOCALITY.—El Paso, El Paso County, Texas.

†***Ammospermophilus leucurus leucurus** (Merriam).

1889. *Tamias leucurus* MERRIAM, North Amer. Fauna, No. 2, p. 20. October 30, 1889.

1907. *Ammospermophilus leucurus* MEARNS, Mamm. Mex. Boundary, p. 299. April 13, 1907.

TYPE LOCALITY.—San Gorgonio Pass, Riverside County, California.

†***Ammospermophilus leucurus cinnamomeus** (Merriam).

1890. *Tamias leucurus cinnamomeus* MERRIAM, North Amer. Fauna, No. 3, p. 52. September 11, 1890.

1907. *Ammospermophilus leucurus cinnamomeus* MEARNS, Mamm. Mex. Boundary, p. 299. April 13, 1907.

TYPE LOCALITY.—Echo Cliffs, Painted Desert, Coconino County, Arizona.

†***Ammospermophilus leucurus insularis** Nelson and Goldman.

1909. *Ammospermophilus leucurus insularis* NELSON and GOLDMAN, Proc. Biol. Soc. Washington, vol 22, p. 24. March 10, 1909.

TYPE LOCALITY.—Espiritu Santo Island, Lower California, Mexico.

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***Ammospermophilus leucurus peninsulæ** (Allen).

1893. *Tamias leucurus peninsulæ* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 5, p. 197. August 18, 1893.

1907. *Ammospermophilus leucurus peninsulæ* MEARNS, Mamm. Mex. Boundary, p. 299. April 13, 1907.

TYPE LOCALITY.—San Telmo, Lower California, Mexico.

***Ammospermophilus leucurus vinnulus** (Elliot).

1903. *Citellus l[eucurus] vinnulus* ELLIOT, Field Columb. Mus., publ. 87, zool. ser., vol. 3, p. 241. December, 1903.

TYPE LOCALITY.—Keeler, Owens Lake, Inyo County, California.

†*Ammospermophilus nelsoni (Merriam).

1893. *Spermophilus nelsoni*, MERRIAM, Proc. Biol. Soc. Washington, vol. 8, p. 129. December 28, 1893.

TYPE LOCALITY.—Tipton, San Joaquin Valley, Tulare County, California.

Genus TAMIAS Illiger.

1811. *Tamias* ILLIGER, Prodr. Syst. Mam. et Avium, p. 83. Type, *Sciurus striatus* LINNÆUS.

***Tamias striatus striatus** (Linnæus).

1758. [*Sciurus*] *striatus* LINNÆUS, Syst. Nat., ed. 10, vol. 1, p. 64.

1857. *Tamias striatus* BAIRD, 11th Smithsonian Report, p. 55.

1885. *Tamias striatus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 593. 1885. (Part.)

TYPE LOCALITY.—Southeastern United States.

***Tamias striatus griseus** Mearns.

1891. *Tamias striatus griseus* MEARNS, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 231. June 5, 1891.

TYPE LOCALITY.—Fort Snelling, Hennepin County, Minnesota.

***Tamias striatus lysteri** (Richardson).

1829. *Sciurus* (*Tamias*) *lysteri* RICHARDSON, Fauna Boreali-Americana, vol. 1, p. 181.

1886. *Tamias striatus lysteri* MERRIAM, Amer. Nat., vol. 20, p. 242. March, 1886.

TYPE LOCALITY.—Penetanguishene, Georgian Bay, Ontario, Canada.

***Tamias striatus venustus** Bangs.

1896. *Tamias striatus venustus* BANGS, Proc. Biol. Soc. Washington, vol. 10, p. 137. December 28, 1896.

TYPE LOCALITY.—Stilwell, Adair County, Oklahoma.

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Genus SCIURUS Linnæus.

1758. *Sciurus* LINNÆUS, Syst. Nat., ed. 10, vol. 1, p. 63. Type, *Sciurus vulgaris* LINNÆUS.

Subgenus TAMIASCIURUS Trouessart.[1]

1880. *Tamiasciurus* TROUESSART, Le Naturaliste, vol. 2, No. 37, p. 292. October, 1880. Type, *Sciuris hudsonicus* ERXLEBEN.

***Sciurus hudsonicus hudsonicus** (Erxleben).

1777. [*Sciurus vulgaris*] *hudsonicus* ERXLEBEN, Syst. Regni Anim., vol. 1, p. 416.

1885. *Sciurus hudsonius hudsonius* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 595. 1885. (Part.)

1894. *Sciurus hudsonicus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 6, p. 325. November 7, 1894.

TYPE LOCALITY.—Hudson Strait.

RANGE.—Cold Temperate subregion east of the Rocky Mountains [Hudsonian zone].

***Sciurus hudsonicus gymnicus** Bangs.

1899. *Sciurus hudsonicus gymnicus* BANGS, Proc. New England Zool. Club, vol. 1, p. 28. March 31, 1899.

TYPE LOCALITY.—Greenville (near Moosehead Lake), Piscataquis County, Maine.

***Sciurus hudsonicus loquax** Bangs.

1896. *Sciurus hudsonicus loquax* BANGS, Proc. Biol. Soc. Washington, vol. 10, p. 161. December 28, 1896.

TYPE LOCALITY.—Liberty Hill, New London County, Connecticut.

RANGE.—Alleghenian and Carolinian Faunæ of the Humid Province.

***Sciurus hudsonicus minnesota** Allen.

1899. *Sciurus hudsonicus minnesota* ALLEN, Amer. Nat., vol. 33, p. 640. August, 1899.

TYPE LOCALITY.—Fort Snelling, Hennepin County, Minnesota.

***Sciurus hudsonicus dakotensis** Allen.

1894. *Sciurus hudsonicus dakotensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 6, p. 325. November 7, 1894.

TYPE LOCALITY.—Squaw Creek, Black Hills, South Dakota.

RANGE.—The Black Hills of South Dakota and adjoining portions of Wyoming.

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[1] Revised by Allen, Bull. Amer. Mus. Nat. Hist., vol. 10, pp. 249-298, July 22, 1898.

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†*Sciurus hudsonicus baileyi Allen.

1898. *Sciurus hudsonicus baileyi* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 261. July 22, 1898.

TYPE LOCALITY.—Bighorn Mountains, Wyoming. Altitude, 8,400 feet.

RANGE.—Outlying mountain ranges of central Wyoming and eastern Montana, and northward into Alberta in the eastern foothills of the Rocky Mountains. Its range includes the Bighorn, Pryor, and Laramie Mountains in Wyoming, and the Big Snowy, Bear Paw, and Little Rocky Mountains in Montana, and probably other outlying, pine-covered buttes and hills.

†*Sciurus hudsonicus ventorum Allen.

1898. *Sciurus hudsonicus ventorum* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 263. July 22, 1898.

TYPE LOCALITY.—South Pass City, Wind River Mountains, Fremont County, Wyoming.

RANGE.—Wind River Mountains region and northward along the eastern base of the Rocky Mountains to at least Mystic Lake, and probably to the Belt ranges east of Helena, and thence westward to the head of Snake River in Idaho, and south along the Idaho and Wyoming boundary to the Wasatch Mountains in northeastern Utah. Its range thus includes not only the Wind River and Gros Ventre Ranges, but the Shoshone and Beartooth Mountains, the whole of the National Yellowstone Park region, and the outlying ranges east of the Main Divide to central Montana; to the westward and southward it includes the Snake River, Cariboo, Thompson, Blackfoot, Bear River, Bannock, and Wasatch Ranges, with their outlying and included or connected spurs.

*Sciurus hudsonicus richardsonii (Bachman).

1838. *Sciurus richardsonii* BACHMAN, Proc. Zool. Soc. London, p. 100.

1885. *Sciurus hudsonius richardsoni* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 595. 1885.

1898. *Sciurus hudsonicus richardsonii* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 265. July 22, 1898.

TYPE LOCALITY.—Head of Big Lost River, Fremont County, Idaho.

RANGE.—Western border of northern Montana, central and northern Idaho, northeastern Oregon, northeastern Washington, and thence northward into southeastern British Columbia; in other words, the Bitterroot and Coeur d'Alene Mountains on the western border of Montana; the Lost River, Salmon

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Sciurus hudsonicus richardsonii—Continued.

River, Pahsimeroi and Saw Tooth Mountains in central Idaho, and westward in the Craig and Seven Devils Mountains to the Powder River and Blue Mountains of Oregon; thence through northern Idaho, and west in the mountains of northeastern Washington to Colville, and northward into the Kootenai district of eastern British Columbia. The extent of its range northward along the main Rocky Mountains can not now be determined, owing to absence of material from the area in question. It appears to reach its maximum of differentiation in the Cœur d'Alene and Bitter Root Mountains, although specimens from central Idaho (the type region) are scarcely distinguishable.

***Sciurus hudsonicus streatori** Allen.

1898. *Sciurus hudsonicus streatori* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 267. July 22, 1898.

TYPE LOCALITY.—Ducks, British Columbia, Canada.

RANGE.—Central part of northern Washington, from the Columbia River northward over central British Columbia. It occupies the Okanagan district of Washington from the head of Lake Chelan northward. At Lake Chelan and Fort Spokane it meets *S. douglasii* without intergrading; at Marcus and Conconully it intergrades with *S. h. richardsonii*, which occupies the area immediately to the eastward, as it does also in the Kootenai district in southeastern British Columbia.

***Sciurus hudsonicus vancouverensis** Allen.

1890. *Sciurus hudsonicus vancouverensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 165. November 14, 1890.

TYPE LOCALITY.—Duncan Station, Vancouver Island, British Columbia, Canada.

RANGE.—Vancouver Island, and the coast region of northern British Columbia, north at least to Sitka.

Regarded by Osgood (North Amer. Fauna, No. 19, p. 27, October 6, 1900) as a distinct species.

†*Sciurus hudsonicus petulans Osgood.

1900. *Sciurus hudsonicus petulans* OSGOOD, North Amer. Fauna, No. 19, p. 27. October 6, 1900.

TYPE LOCALITY.—Glacier, White Pass, southern Alaska. Altitude, 1,870 feet.

***Sciurus douglasii douglasii** Bachman.

1838. *Sciurus douglasii* BACHMAN, Proc. Zool. Soc. London, p. 99.

1885. *Sciurus hudsonius douglassi* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 595. 1885.

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Sciurus douglassii douglasii—Continued.

1898. *Sciurus douglasii* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 273. July 22, 1898.

TYPE LOCALITY.—Near mouth of the Columbia River.

RANGE.—The immediate vicinity of the Pacific coast in Oregon and Washington, from about Cape Blanco to Juan de Fuca Strait.

***Sciurus douglasii mollipilosus** (Audubon and Bachman).

1841. *Sciurus mollipilosus* AUDUBON and BACHMAN, Proc. Acad. Nat. Sci. Philadelphia, vol. 1, p. 102. October, 1841.

1897. *Sciurus hudsonicus orarius* BANGS, Proc. Biol. Soc. Washington, vol. 11, p. 281. December 30, 1897. Philo, Mendocino County, California. (On status of this name see Bangs, Proc. Biol. Soc. Washington, vol. 16, p. 99–100, June 25, 1903.)

1898. *Sciurus douglasii mollipilosus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 276. July 22, 1898.

TYPE LOCALITY.—Coast of northern California.

RANGE.—Pacific coast region of northern California, west of the Coast Range, from Sonoma County (Petaluma) north into Curry County (Port Orford), Oregon. Grades into *S. d. albolimbatus* in the Siskiyou region.

†*Sciurus douglasii cascadensis Allen.

1898. *Sciurus douglasii cascadensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol 10, p. 277. July 22, 1898.

TYPE LOCALITY.—Mount Hood, Oregon.

RANGE.—The Cascades region of Oregon and Washington, north into British Columbia, including also the coast region at the mouth of the Fraser River, and north at least to Rivers Inlet (about 51° 30′), some 50 miles north of Vancouver Island. In Oregon this form prevails south in the Cascades to the vicinity of Forth Klamath, and west of the Cascades, to Glendale, Cleveland, Eugene, and Sweet Home, and in Washington, to Tenino, Roy, and Snoqualmie Falls.

(See note, page 401.)

***Sciurus douglasii albolimbatus** Allen.

1890. *Sciurus hudsonius californicus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 165. November 14, 1890. (Not of Lesson, 1847.)

1898. *Sciurus douglasii albolimbatus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 453. November 10, 1898. (Renaming of *californicus* Allen.)

TYPE LOCALITY.—Blue Canyon, Placer County, California.

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Sciurus douglasii albolimbatus—Continued.

RANGE.—The Sierra Nevada region of central and northern California, north in Oregon, east of the Cascades, to the Maury Mountains and Strawberry Butte, over which region it prevails with little change and may be considered typical, and nearly typical *albolimbatus* prevails westward in Oregon to the eastern base of the Cascades, where it passes into *cascadensis*.

†***Sciurus douglasii mearnsi** (Townsend).

1897. *Sciurus hudsonius mearnsi* TOWNSEND, Proc. Biol. Soc. Washington, vol. 11, p. 146. June 9, 1897.

1899. *Sciurus douglasi mearnsi* NELSON, Proc. Washington Acad. Sci., vol. 1, p. 87. May 9, 1899.

TYPE LOCALITY.—San Pedro Martir Mountains, Lower California, Mexico. Altitude, about 7,000 feet.

RANGE.—Pine forest of San Pedro Martir Mountains, Lower California, Mexico. Transition zone.

***Sciurus fremonti fremonti** Audubon and Bachman.

1853. *Sciurus fremonti* AUDUBON and BACHMAN, Quadr. N. Amer., vol. 3, p. 237.

1885. *Sciurus hudsonius fremonti* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 595. 1885.

1890. *Sciurus fremonti* MERRIAM, North Amer. Fauna, No. 3, p. 48. September 11, 1890.

TYPE LOCALITY.—"Rocky Mountains," probably in the Park region of central Colorado.

RANGE.—The mountainous portions of Colorado, reaching the extreme southern border of Wyoming at Woods P. O., and Uintah Mountains of Utah; also reaching the southern boundary of Wyoming at Fort Bridger.

†***Sciurus fremonti neomexicanus** Allen.

1898. *Sciurus fremonti neomexicanus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 291. July 22, 1898.

TYPE LOCALITY.—Rayado Canyon, Colfax County, New Mexico.

RANGE.—Taos Range, New Mexico.

***Sciurus fremonti lychnuchus** Stone and Rehn.

1903. *Sciurus fremonti lychnuchus* STONE and REHN, Proc. Acad. Nat. Sci. Philadelphia, p. 18. May 7, 1903.

TYPE LOCALITY.—Forks of Ruidoso, Lincoln County, New Mexico.

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***Sciurus fremonti mogollonensis** (Mearns).

1890. *Sciurus hudsonius mogollonensis* MEARNS, Auk, vol. 7, p. 49. January, 1890.

1890. *Sciurus fremonti mogollonensis* MERRIAM, N. Amer. Fauna, No. 3, p. 48. September 11, 1890.

TYPE LOCALITY.—Quaking Asp settlement, summit of Mogollon Mountains, Socorro County, Arizona.

RANGE.—The higher mountains and plateaus of central Arizona, from the Douglas fir belt to timber line.

Sciurus fremonti grahamensis (Allen).

1894. *Sciurus hudsonicus grahamensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 6, p. 350. December 7, 1894.

1898. *Sciurus fremonti grahamensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 292. July 22, 1898.

TYPE LOCALITY.—Graham Mountains, Graham County, Arizona.

RANGE.—The fir zone on the summit of Mount Graham, Arizona.

Subgenus BAIOSCIURUS Nelson.[1]

1899. *Baiosciurus* NELSON, Proc. Washington Acad. Sci., vol. 1, p. 31. May 9, 1899. Type, *Sciurus deppei* PETERS.

***Sciurus deppei deppei** Peters.

1863. *Sciurus deppei* PETERS, Monatsber. k. preuss. Akad. Wissensch. Berlin, p. 654.

1885. *Sciurus deppei* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 595. 1885.

TYPE LOCALITY.—Papantla, State of Vera Cruz, Mexico.

RANGE.—Humid tropical and austral zones from Truxillo, Honduras, northward along mountains on both coasts of Guatemala, and Chiapas, to the Isthmus of Tehuantepec, and thence along the east coast of Mexico to Papantla, Vera Cruz. Altitude below 6,000 feet, sporadically up to 9,000 feet.

Sciurus deppei matagalpæ Allen.

1908. *Sciurus deppei matagalpæ* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 24, p. 660. October 13, 1908.

TYPE LOCALITY.—San Rafael del Norte, Nicaragua.

†*Sciurus deppei vivax Nelson.

1901. *Sciurus deppei vivax* NELSON, Proc. Biol. Soc. Washington, vol. 14, p. 131. August 9, 1901.

TYPE LOCALITY.—Apazote, Campeche, Mexico.

[1] Revised by Nelson, Proc. Washington Acad. Sci., vol. 1, pp. 101–105, May 9, 1899.

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†*Sciurus negligens Nelson.

1898. *Sciurus negligens* NELSON, Proc. Biol. Soc. Washington, vol. 12, p. 147. June 3, 1898.

TYPE LOCALITY.—Alta Mira, State of Tamaulipas, Mexico.

RANGE.—Arid tropical forest of lowlands in extreme northern Vera Cruz, eastern San Luis Potosi, and southern half of Tamaulipas, Mexico, below 1,000 feet.

Subgenus SCIURUS Linnæus.[1]

1880. *Echinosciurus* TROUESSART, Le naturaliste, vol. 2, p. 292. October, 1880. . Type, *Sciurus hypopyrrhus* WAGLER.

1880. *Neosciurus* TROUESSART, Le naturaliste, vol. 2, p. 292. October, 1880. Type, *Sciurus carolinensis* GMELIN.

1899. *Hesperosciurus* NELSON, Proc. Washington Acad. Sci., vol. 1, p. 27. May 9, 1899. Type, *Sciurus griseus* ORD.

1899. *Otosciurus* NELSON, Proc. Washington Acad. Sci., vol. 1, p. 28. May 9, 1899. Type, *Sciurus aberti* WOODHOUSE.

*Sciurus aureogaster aureogaster F. Cuvier.

1829. [*Sciurus*, by implication] *aureogaster* F. CUVIER, Hist. nat. mammifères, vol. 6, livr. 59, pl. with text. September, 1829. (Binomial published at end of work only, vol. 7, table générale et méthodique, p. 4, 1842.)

1885. *Sciurus aureogaster* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 595. 1885. (Part.)

TYPE LOCALITY.—"California"—really eastern Mexico. (See Nelson, Proc. Washington Acad. Sci., vol. 1, p. 38, May 9, 1899.)

RANGE.—Arid tropical lowlands and adjacent mountains of southern Tamaulipas, northern Vera Cruz, eastern San Luis Potosi, eastern Queretaro and Puebla, northeastern Hidalgo, and thence south to border of humid tropical zone in central Vera Cruz, and northern side of Isthmus of Tehuantepec in Oaxaca. Usually below 4,000 feet altitude, but sporadically up to over 8,000 feet in Hidalgo and Queretaro.

*Sciurus aureogaster hypopyrrhus (Wagler).

1831. *Sciurus hypopyrrhus* WAGLER, Isis, p. 510.

1885. *Sciurus hypopyrrhus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 595. 1885. (Part.)

1899. *Sciurus aureogaster hypopyrrhus* NELSON, Proc. Washington Acad. Sci., vol. 1, p. 42. May 9, 1899.

TYPE LOCALITY.—Mexico, probably in Vera Cruz.

[1] Revised by Nelson, under the names *Echinosciurus*, *Hesperosciurus*, and *Otosciurus*, Proc. Washington Acad. Sci., vol. 1, pp. 38-66, May 9, 1899.

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Sciurus aureogaster hypopyrrhus—Continued.

RANGE.—Humid tropical forests of southern Vera Cruz, adjacent parts of extreme southeastern Oaxaca, Tabasco, eastern Chiapas, and perhaps extreme northwestern Guatemala, below 4,000 feet.

†***Sciurus aureogaster frumentor** Nelson.

1898. *Sciurus aureogaster frumentor* NELSON, Proc. Biol. Soc. Washington, vol. 12, p. 154. June 3, 1898.

TYPE LOCALITY.—Las Vigas, State of Vera Cruz, Mexico.

RANGE.—Mixed pine and oak forests of upper austral zone on east and north base of the Cofre de Perote and adjacent eastern slope of the Cordillera near Las Vigas, Vera Cruz. Altitude, 6,000 to 8,000 feet.

***Sciurus poliopus poliopus** (Fitzinger).

1867. [*Sciurus variegatus*] *poliopus* FITZINGER, Sitzungsber. k. Akad. Wissensch. Wien, math.-naturw. Cl., vol. 55, Abth. 1, p. 478. March, 1867.

1898. *Sciurus wagneri* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 453. November 10, 1898. (Substitute for the preoccupied *albipes* WAGNER and *varius* WAGNER.)

1899. *Sciurus poliopus* NELSON, Proc. Washington Acad. Sci., vol. 1, p. 46. May 9, 1899.

TYPE LOCALITY.—Cerro San Felipe, State of Oaxaca, Mexico.

RANGE.—Pine and oak forests of transition and boreal zones on mountains north, east, and south of Valley of Oaxaca, Mexico. Altitude, 7,500 to 11,000 feet.

†***Sciurus poliopus hernandezi** (Nelson).

1898. *Sciurus poliopus quercinus* NELSON, Proc. Biol. Soc. Washington, vol. 12, p. 150. June 30, 1898. (Not of Erxleben, 1777.)

1898. [*Sciurus albipes*] *hernandezi* NELSON, Science, n. s., vol. 8, p. 783. December 2, 1898. (Substitute for *quercinus* Nelson.)

1899. *Sciurus poliopus hernandezi* NELSON, Proc. Washington Acad. Sci., vol. 1, p. 48. May 9, 1899.

TYPE LOCALITY.—Mountains 15 miles west of the city of Oaxaca, State of Oaxaca, Mexico.

RANGE.—Pine and oak forests of transition and boreal zones on mountains west of the Valley of Oaxaca and thence to lower Sonoran zone in southern Puebla and southeastern Guerrero, Mexico.

†***Sciurus poliopus perigrinator** Nelson.

1904. *Sciurus poliopus perigrignator* NELSON, Proc. Biol. Soc. Washington, vol. 17, p. 149. October 6, 1904.

TYPE LOCALITY.—Piaxtla, Puebla, M

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†*Sciurus poliopus nemoralis (Nelson).

1898. *Sciurus albipes nemoralis* NELSON, Proc. Biol. Soc. Washington, vol. 12, p. 151. June 3, 1898.

1899. *Sciurus poliopus nemoralis* NELSON, Proc. Washington Acad. Sci., vol. 1, p. 50. May 9, 1899.

TYPE LOCALITY.—Patzcuaro, State of Michoacan, Mexico.

RANGE.—Pine and oak forests of transition and boreal zones, from the Volcano of Toluca, State of Mexico, to Nahuatzin, Michoacan, Mexico. Altitude, 7,000 to 12,000 feet.

†*Sciurus poliopus senex Nelson.

1904. *Sciurus poliopus senex* NELSON, Proc. Biol. Soc. Washington, vol. 17, p. 148. October 6, 1904.

TYPE LOCALITY.—La Salada, 40 miles south of Uruapan, southern Michoacan, Mexico.

*Sciurus poliopus cervicalis (Allen).

1890. *Sciurus cervicalis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 183. December 10, 1890.

1899. *Sciurus poliopus cervicalis* NELSON, Proc. Washington Acad. Sci., vol. 1, p. 51. May 9, 1899.

TYPE LOCALITY.—Hacienda San Marcos, Tonila, State of Jalisco, Mexico.

RANGE.—Pine and oak forests of upper Austral and boreal zones of the Sierra Nevada de Colima, Jalisco, Mexico, and thence north along high mountains to Ameca, Jalisco, and east into western Michoacan. Altitude, 6,000 to 12,000 feet; sporadically down to 4,000 feet.

†*Sciurus poliopus colimensis (Nelson).

1898. *Sciurus albipes colimensis* NELSON, Proc. Biol. Soc. Washington, vol. 12, p. 152. June 3, 1898.

1899. *Sciurus poliopus colimensis* NELSON, Proc. Washington Acad. Sci., vol. 1, p. 52. May 9, 1899.

TYPE LOCALITY.—Hacienda Magdalena, State of Colima, Mexico.

RANGE.—Arid tropical coast region in State of Colima, western Mexico, below 2,000 feet.

†*Sciurus poliopus effugius (Nelson).

1898. *Sciurus albipes effugius* NELSON, Proc. Biol. Soc. Washington, vol. 12, p. 152. June 3, 1898.

1899. *Sciurus poliopus effugius* NELSON, Proc. Washington Acad. Sci., vol. 1, p. 54. May 9, 1899.

TYPE LOCALITY.—High mountains west of Chilpancingo, State of Guerrero, Mexico.

RANGE.—Pine and oak forests of transition and boreal zones along summit of Cordillera in southwestern Guerrero. Altitude, 7,500 to 9,500 feet.

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Sciurus poliopus tepicanus Allen.

1906. *Sciurus poliopus tepicanus* ALLEN Bull. Amer. Mus. Nat. Hist., vol. 22, p. 243. July 25, 1906.

TYPE LOCALITY.—Rancho Palo Amarillo, near Amatlan de Canas, Tepic, Mexico. Altitude, 5,000 feet.

†***Sciurus nelsoni nelsoni** Merriam.

1893. *Sciurus nelsoni* MERRIAM, Proc. Biol. Soc. Washington, vol. 8, p. 144. December 29, 1893.

TYPE LOCALITY.—Huitzilac, State of Morelos, Mexico.

RANGE.—Oak and pine forests of transition and boreal zones in mountains on south and west sides of Valley of Mexico, and south side of Valley of Toluca, in the Federal District and States of Mexico and Morelos. Altitude, 8,000 to 12,000 feet.

†***Sciurus nelsoni hirtus** Nelson.

1898. *Sciurus nelsoni hirtus* NELSON, Proc. Biol. Soc. Washington, vol. 12, p. 153. June 3, 1898.

TYPE LOCALITY.—Tochimilco, State of Puebla, Mexico.

RANGE.—Oak and pine forests of transition and boreal zones on Mounts Popocatepetl and Iztaccihuatl, in States of Mexico, Puebla, and Morelos. Altitude, 8,000 to 12,000 feet.

***Sciurus colliæi colliæi** Richardson.

1839. *Sciurus colliæi* RICHARDSON, Voyage of H. M. S. *Blossom*, Zool., p. 8.

1899. *Sciurus colliæi* NELSON, Proc. Washington Acad. Sci., vol. 1, p. 58. May 9, 1899.

TYPE LOCALITY.—San Blas, State of Tepic, Mexico.

RANGE.—Arid tropical lowlands and lower slopes of adjacent mountains from northern border of Tepic south to Bay of Banderas, below 2,500 feet.

†***Sciurus colliæi nuchalis** Nelson.

1899. *Sciurus colliæi nuchalis* NELSON, Proc. Washington Acad. Sci., vol. 1, p. 59. May 9, 1899.

TYPE LOCALITY.—Manzanillo, State of Colima, Mexico.

RANGE.—Arid tropical lowlands from the border of Michoacan north along the coast to the Bay of Banderas, Jalisco, and inland to the more heavily wooded mountains near San Sebastian, Jalisco, below 3,000 feet.

***Sciurus sinaloensis** Nelson.

1899. *Sciurus sinaloensis* NELSON, Proc. Washington Acad. Sci., vol. 1, p. 60. May 9, 1899.

TYPE LOCALITY.—Mazatlan, State of Sinaloa, Mexico.

RANGE.—Arid tropical parts of southern and central Sinaloa, below 2,500 feet.

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†*Sciurus truei Nelson.

1899. *Sciurus truei* NELSON, Proc. Washington Acad. Sci., vol. 1, p. 61. May 9, 1899.

TYPE LOCALITY.—Camoa, Rio Mayo, State of Sonora, Mexico.

RANGE.—Scrubby forests of arid lower Sonoran zone in southwestern Sonora and northern Sinaloa, Mexico.

*Sciurus socialis socialis Wagner.

1837. *Sciurus socialis* WAGNER, Abhandl. math.-phys. Cl. k. bayerisch. Akad. Wiss. München, vol. 2, p. 504.

1899. *Sciurus socialis* NELSON, Proc. Washington Acad. Sci., vol. 1, p. 62. May 9, 1899.

TYPE LOCALITY.—Vicinity of Tehuantepec City, State of Oaxaca, Mexico.

RANGE.—Arid tropical lowland forests along the Pacific coast from Puerto Angel, Oaxaca, south to Tonala and Tuxtla, Chiapas, Mexico, and up the river valley to Nenton, Guatemala, below 3,000 feet.

†*Sciurus socialis cocos Nelson.

1898. *Sciurus socialis cocos* NELSON, Proc. Biol. Soc. Washington, vol. 12, p. 155. June 3, 1898.

TYPE LOCALITY.—Acapulco, State of Guerrero, Mexico.

RANGE.—Arid tropical lowlands of the Pacific coast from Acapulco, Guerrero, south to Jamiltepec, Oaxaca, below 1,500 feet.

†*Sciurus socialis littoralis Nelson.

1907. *Sciurus socialis littoralis* NELSON, Proc. Biol. Soc. Washington, vol. 20, p. 87. December 11, 1907.

TYPE LOCALITY.—Puerto Angel, Oaxaca, Mexico.

*Sciurus griseoflavus griseoflavus (Gray).

1867. *Macroxus griseoflavus* GRAY, Ann. and Mag. Nat. Hist., ser. 3, vol. 20, p. 427. December, 1867.

1878. *Sciurus griseoflavus* ALSTON, Proc. Zool. Soc. London, p. 660.

1885. *Sciurus griseoflavus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 595. 1885.

TYPE LOCALITY.—Guatemala.

RANGE.—Oak and pine forests of the transition and boreal zones in central and northwestern Guatemala and adjacent high mountains in southeastern Chiapas, Mexico.

†*Sciurus griseoflavus chiapensis Nelson.

1899. *Sciurus griesoflavus chiapensis* NELSON, Proc. Washington Acad. Sci., vol. 1, p. 69. May 9, 1899.

TYPE LOCALITY.—San Cristobal, State of Chiapas, Mexico.

RANGE.—Pine and oak forests of transition and boreal zones in mountains of central Chiapas. Altitude, 7,500 to 9,500 feet.

†*Sciurus yucatanensis yucatanensis (Allen).

1877. [*Sciurus carolinensis*] var. *yucatanensis* ALLEN, Monogr. N. Amer. Rodentia, p. 705. August, 1877.

1885. *Sciurus carolinensis yucatanensis* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 595. 1885.

1897. *Sciurus yucatanensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 9, p. 5. February 23, 1897.

TYPE LOCALITY.—Merida, Yucatan.

RANGE.—Arid tropical forests of peninsula of Yucatan.

†*Sciurus yucatanensis baliolus Nelson.

1901. *Sciurus yucatanensis baliolus* NELSON, Proc. Biol. Soc. Washington, vol. 14, p. 131. August 9, 1901.

TYPE LOCALITY.—Apazote, Campeche, Mexico.

†*Sciurus thomasi Nelson.

1899. *Sciurus thomasi* NELSON, Proc. Washington Acad. Sci., vol. 1, p. 71. May 9, 1899.

TYPE LOCALITY.—Talamanca, Costa Rica.

RANGE.—Humid tropical forests of eastern Costa Rica.

*Sciurus adolphei adolphei (Lesson).

1842. *Macroxus adolphei* LESSON, Nouv. tabl. règne animal, mamm., p. 112.

1899. *Sciurus adolphei* NELSON, Proc. Washington Acad. Sci., vol. 1, p. 73. May 9, 1899.

TYPE LOCALITY.—Realejo, Nicaragua.

RANGE.—Tropical lowlands on west coast of Nicaragua.

*Sciurus adolphei dorsalis (Gray).

1848. *Sciurus dorsalis* GRAY, Proc. Zool. Soc. London, p. 138.

1899. *Sciurus adolphei dorsalis* NELSON, Proc. Washington Acad. Sci., vol. 1, p. 74. May 9, 1899.

TYPE LOCALITY.—"Erroneously given as Caracas, Venezuela. (Specimens from Liberia, Costa Rica, are typical.)"—Nelson.

RANGE.—Comparatively arid parts of tropical western Costa Rica from near Alajuela (or perhaps even farther south) north to district about Liberia, the peninsula of Nicoya, and perhaps adjacent part of Nicaragua.

Sciurus melania (Gray).

1867. *Macroxus melania* GRAY, Am. and Mag. Nat. Hist., ser. 3, vol. 20, p. 425.

1902. *Sciurus melania* BANGS, Bull. Mus. Comp. Zool., vol. 39, p. 22. April, 1902.

TYPE LOCALITY.—Point Burica, Costa Rica.

Regarded by Bangs (Bull. Mus. Comp. Zool., vol. 46, p. 212, January, 1906) as "hardly a species (or subspecies) in the true sense of the term," therefore identical with *S. adolphei dorsalis*.

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***Sciurus boothiæ boothiæ** Gray.

1843. *Sciurus boothiæ* GRAY, List Spec. Mamm. Brit. Mus., p. 139.

1899. *Sciurus boothiæ* NELSON, Proc. Washington Acad. Sci., vol. 1, p. 76. May 9, 1899.

TYPE LOCALITY.—Honduras.

RANGE.—Humid tropical coast forests of northern Honduras and border of Guatemala.

Sciurus boothiæ annalium Thomas.

1905. *Sciurus boothiæ annalium* THOMAS, Am. and Mag. Nat. Hist., ser. 7, vol. 16, p. 309. September, 1905.

TYPE LOCALITY.—Honduras.

†*Sciurus boothiæ belti Nelson.

1899. *Sciurus boothiæ belti* NELSON, Proc. Washington Acad. Sci., vol. 1, p. 78. May 9, 1899.

TYPE LOCALITY.—Escondido River, 50 miles above Bluefields, Nicaragua.

RANGE.—Humid tropical forests of eastern coast region of Nicaragua and north to Segovia River, Honduras.

***Sciurus variegatoides variegatoides** Ogilby.

1839. *Sciurus variegatoides* OGILBY, Proc. Zool. Soc. London, p. 117.

1899. *Sciurus variegatoides* NELSON, Proc. Washington Acad. Sci., vol. 1, p. 79. May 9, 1899.

TYPE LOCALITY.—Salvador, west coast of Central America.

RANGE.—Tropical forests of Salvador, west coast of Central America.

†*Sciurus variegatoides helveolus Goldman.

1912. *Sciurus variegatoides helveolus* GOLDMAN, Smiths. Misc. Coll., vol. 56, No. 36, p. 3. February 19, 1912.

TYPE LOCALITY.—Corozal, Canal Zone, Panama.

†*Sciurus managuensis (Nelson).

1898. *Sciurus boothiæ managuensis* NELSON, Proc. Biol. Soc. Washington, vol. 12, p. 150. June 3, 1898.

1899. *Sciurus managuensis* NELSON, Proc. Washington Acad. Sci., vol. 1, p. 81. May 9, 1899.

TYPE LOCALITY.—Managua River, Guatemala.

RANGE.—Humid tropical forests along Managua River, northern Guatemala.

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†*Sciurus goldmani Nelson.

1898. *Sciurus goldmani* NELSON, Proc. Biol. Soc. Washington, vol. 12, p. 149. June 3, 1898.

TYPE LOCALITY.—Huehuetan, State of Chiapas, Mexico.

RANGE.—Arid tropical forests along southeastern coast of Chiapas, Mexico, and adjacent part of Guatemala, below 1,500 feet.

*Sciurus griseus griseus Ord.

1818. *Sciurus griseus* ORD, Journ. de phys., vol. 87, p. 152.

1885. *Sciurus fossor* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 595. 1885.

1894. *Sciurus griseus* RHOADS, Amer. Nat., vol. 28, p. 525. June, 1894.

TYPE LOCALITY.—The Dalles, Wasco County, Oregon.

RANGE.—Pine and oak forests of transition (and upper border of austral) zone from extreme southwestern Washington through western Oregon and most of California (except coast belt south of San Francisco) to northern Lower California, Mexico.

†*Sciurus griseus anthonyi (Mearns).

1897. *Sciurus fossor anthonyi* MEARNS, Preliminary diagnoses of new mammals of the genera Sciurus, Castor, Neotoma, and Sigmodon, from the Mexican border of the United States, p. 1. March 5, 1897. (Reprint: Proc. U. S. Nat. Mus., vol. 20, p. 501. January 19, 1898.)

1907. *Sciurus griseus anthonyi* MEARNS, Mamm. Mex. Boundary, p. 264. April 13, 1907.

TYPE LOCALITY.—Campbell's Ranch, Laguna Mountains, San Diego County, California.

*Sciurus griseus nigripes (Bryant).

1889. *Sciurus fossor nigripes* BRYANT, Proc. California Acad. Sci., ser. 2, vol. 2, p. 25. June 20, 1889.

1894. [*Sciurus*] *griseus nigripes* RHOADS, Amer. Nat., vol. 28, p. 525. June, 1894.

TYPE LOCALITY.—Coast region of San Mateo County, California.

*Sciurus carolinensis[1] carolinensis Gmelin.

1788. [*Sciurus*] *carolinensis* GMELIN, Syst. Nat., vol. 1, p. 148.

1885. *Sciurus carolinensis carolinensis* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 595. 1885.

TYPE LOCALITY.—"Carolina."

RANGE.—Austral zone, from northern Florida north about to the lower Hudson Valley, west through the Alleghenies south of Pennsylvania to Indiana, Missouri, Oklahoma, and the edge of the plains.

[1] Revised by Bangs, Proc. Biol. Soc. Washington, vol. 10, October 28, 1896.

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***Sciurus carolinensis extimus** Bangs.

1896. *Sciurus carolinensis extimus* BANGS, Proc. Biol. Soc. Washington, vol. 10, p. 158. December 28, 1896.

TYPE LOCALITY.—Miami, Dade County, Florida.

RANGE.—Subtropical fauna of south Florida, northward about half way up the peninsula.

***Sciurus carolinensis fuliginosus** (Bachman).

1838. *Sciurus fuliginosus* BACHMAN, Proc. Zool. Soc. London, p. 97.

1895. *Sciurus carolinensis fuliginosus* BANGS, Proc. Boston Soc. Nat. Hist., vol. 26, p. 543. July 31, 1895.

TYPE LOCALITY.—Near New Orleans, Louisiana.

RANGE.—The bayou region of the coast of Louisiana.

†*Sciurus carolinensis hypophæus Merriam.

1886. *Sciurus carolinensis hypophæus* MERRIAM, Science, vol. 7, p. 351. April 16, 1886.

TYPE LOCALITY.—Elk River, Sherburne County, Minnesota.

RANGE.—The edge of the forest belt in Minnesota. Limits of range not known.

***Sciurus carolinensis leucotis** (Gapper).

1830. *Sciurus leucotis* GAPPER, Zool. Journ., vol. 5, p. 206.

1877. *Sciurus carolinensis* var. *leucotis* ALLEN, Monogr. N. Amer. Rodentia, p. 701. August, 1877.

1885. *Sciurus carolinensis leucotis* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 595. 1885.

TYPE LOCALITY.—Region between York and Lake Simcoe, Ontario, Canada.

RANGE.—Transition zone and locally lower edge of Canadian zone from the Alleghenies of Pennsylvania north through New York and New England, to southern New Brunswick and southern Ontario; west to Minnesota.

†*Sciurus aberti aberti Woodhouse.

1853. *Sciurus aberti* WOODHOUSE, Proc. Acad. Nat. Sci. Philadelphia, vol. 6 (1852), p. 220.

1885. *Sciurus aberti* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 595. 1885.

TYPE LOCALITY.—San Francisco Mountain, Coconino County, Arizona.

***Sciurus aberti barberi** Allen.

1904. *Sciurus aberti barberi* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 20, p. 207. May 28, 1904.

TYPE LOCALITY.—Colonia Garcia, Chihuahua, Mexico.

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†*Sciurus aberti ferreus True.

1894. *Sciurus aberti concolor* TRUE, Diagnoses of new North American mammals, p. 1. April 26, 1894. (Reprint: Proc. U. S. Nat. Mus., vol. 17, p. 241. November 15, 1894.) Not of Blyth, 1855.

1900. [*Sciurus aberti*] *ferreus* TRUE, Proc. Biol. Soc. Washington, vol. 13, p. 183. November 30, 1900. (Substitute for *concolor* True.)

TYPE LOCALITY.—Loveland, Larimer County, Colorado.

†*Sciurus aberti mimus Merriam.

1904. *Sciurus aberti mimus* MERRIAM, Proc. Biol. Soc. Washington, vol. 17, p. 130. June 9, 1904.

TYPE LOCALITY.—Hall Peak, at south end of Cimarron Mountains, Mora County, New Mexico.

Sciurus aberti phæurus Allen.

1904. *Sciurus aberti phæurus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 20, p. 205. May 28, 1904.

TYPE LOCALITY.—La Cienega, northwest Durango, Mexico.

†*Sciurus kaibabensis Merriam.

1904. *Sciurus kaibabensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 17, p. 129. June 9, 1904.

TYPE LOCALITY.—Bright Angel Creek, top of Kaibab Plateau, north side of Grand Canyon of Colorado, Coconino County, Arizona.

*Sciurus durangi (Thomas).

1893. *Sciurus aberti durangi* THOMAS, Ann. and Mag. Nat. Hist., ser. 6, vol. 11, p. 49. January, 1893.

1899. *Sciurus durangi* NELSON, Proc. Washington Acad. Sci., vol. 1, p. 85. May 9, 1899.

TYPE LOCALITY.—Ciudad ranch, 100 miles west of Durango City, State of Durango, Mexico.

RANGE.—Pine forests of transition and lower border of boreal zones in Sierra Madre, western Durango and Chihuahua, Mexico. Altitude, 7,000 to 11,000 feet.

Subgenus GUERLINGUETUS Gray.[1]

1821. *Guerlinguetus* GRAY, London Med. Repos., vol. 15, p. 304. April, 1821. Type, *Sciurus guerlinguetus* GRAY = *Sciurus æstuans* LINNÆUS.

1880. *Parasciurus* TROUESSART, Le naturaliste, vol. 2, p. 292. October, 1880. Type, *Sciurus niger* LINNÆUS.

1899. *Arœosciurus* NELSON, Proc. Washington Acad. Sci., vol. 1, p. 29. May 9, 1899. Type, *Sciurus oculatus* PETERS.

[1] Revised by Nelson, under the names *Parasciurus*, *Arœosciurus*, and *Guerlinguetus*, Proc. Washington Acad. Sci., vol. 1, pp. 88-101, May 9, 1899.

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***Sciurus niger**[1] **niger** Linnæus.

1758. [*Sciurus*] *niger* LINNÆUS, Syst. Nat., ed. 10, vol. 1, p. 64.

1885. *Sciurus niger niger* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 595. 1885.

TYPE LOCALITY.—Probably southern South Carolina. (The name is based on Catesby's black fox squirrel.)

RANGE.—Florida and the southeastern States.

***Sciurus niger neglectus** (Gray).

1867. *Macroxus neglectus* GRAY, Ann. and Mag. Nat. Hist., ser. 3, vol. 20, p. 425. December, 1867.

1885. *Sciurus niger cinereus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 595. 1885.

1896. *Sciurus ludovicianus vicinus* BANGS, Proc. Biol. Soc. Washington, vol. 10, p. 150. December 28, 1896. (White Sulphur Springs, Greenbrier County, West Virginia.)

1900. *Sciurus ludovicianus neglectus* NELSON, Proc. Biol. Soc. Washington, vol. 13, p. 170. October 31, 1900.

1907. *S[ciurus] n[iger] neglectus* OSGOOD, Proc. Biol. Soc. Washington, vol. 20, p. 45. April 18, 1907.

TYPE LOCALITY.—Wilmington, Delaware. (See Nelson, Proc. Biol. Soc. Washington, vol. 13, p. 170. October 31, 1900.)

RANGE.—Central Virginia and West Virginia to Pennsylvania.

***Sciurus niger rufiventer** (Geoffroy).

1803. *Sciurus rufiventer* GEOFFROY, Catal. Mam. Mus. Nat. Hist. Nat., Paris, p. 176.

1806. *Sciurus ludovicianus* CUSTIS, Barton's Med. and Phys. Journal, vol. 2, pt. 2, p. 47.

1885. *Sciurus niger ludovicianus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 595. 1885.

1907. *Sciurus niger rufiventer* OSGOOD, Proc. Biol. Soc. Washington, vol. 20, p. 44. April 18, 1907.

TYPE LOCALITY.—Mississippi Valley, exact locality not known.

RANGE.—Greater part of the Mississippi Valley, from northern Louisiana to southern Wisconsin.

***Sciurus niger texianus** (Bachman).

1838. *Sciurus texianus* BACHMAN, Proc. Zool. Soc. London, p. 86.

1907. *Sciurus niger texianus* OSGOOD, Proc. Biol. Soc. Washington, vol. 20, p. 46. April 18, 1907.

TYPE LOCALITY.—Coast of Louisiana or Mississippi. (Erroneously supposed to have been somewhere in Texas.)

RANGE.—Coast region of Louisiana and Mississippi.

[1] Forms occurring in the United States revised by Osgood, Proc. Biol. Soc. Washington, vol. 20, pp. 45–46, April 18, 1907.

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†*Sciurus ludovicianus limitis (Baird).

1855. *Sciurus limitis* BAIRD, Proc. Acad. Nat. Sci. Philadelphia, vol. 7, p. 331.

1896. *Sciurus ludovicianus limitis* BANGS, Proc. Biol. Soc. Washington, vol. 10, p. 149. December 28, 1896.

TYPE LOCALITY.—Devil's River, Valverde County, Texas.

RANGE.—Western Texas and northeastern Mexico.

*Sciurus oculatus oculatus Peters.

1863. *Sciurus oculatus* PETERS, Monatsber. k. preuss. Akad. Wissensch. Berlin, p. 653.

1890. *Sciurus niger melanonotus* THOMAS, Proc. Zool. Soc. London, p. 73. (Las Vigas, State of Vera Cruz, Mexico.)

1898. *Sciurus oculatus* NELSON, Proc. Biol. Soc. Washington, vol. 12, p. 149. June 3, 1898.

TYPE LOCALITY.—Mexico, probably near Las Vigas, State of Vera Cruz.

RANGE.—Pine and oak forests of transition and boreal zones in northern Puebla, western Vera Cruz (Cofre de Perote, Mount Orizaba), Hidalgo, eastern Queretaro, and southeastern San Luis Potosi, Mexico. Altitude, 6,000 to 12,000 feet.

†*Sciurus oculatus toluca Nelson.

1898. *Sciurus oculatus toluca* NELSON, Proc. Biol. Soc. Washington, vol. 12, p. 148. June 3, 1898.

TYPE LOCALITY.—North slope of the Volcano of Toluca, State of Mexico, Mexico.

RANGE.—Pine and oak forests of transition and boreal zones on table-land slope of the Sierra Madre in the State of Mexico, from the Volcano of Toluca north to border of Michoacan; also arid mountains of southern and western Queretaro, central and eastern Guanajuato, and southern San Luis Potosi, Mexico. Altitude, 7,500 to 12,000 feet.

†*Sciurus alleni Nelson.

1898. *Sciurus alleni* NELSON, Proc. Biol. Soc. Washington, vol. 12, p. 147. June 3, 1898.

TYPE LOCALITY.—Monterey, State of Nuevo Leon, Mexico.

RANGE.—Open pecan and other forests of lower Sonoran zone near Monterey, Nuevo Leon, extending up to oak and pine forests of transition zone near Victoria and Miquihuana, Tamaulipas, Mexico. Altitude, 2,000 to 8,500 feet.

*Sciurus nayaritensis Allen.

1889. *Sciurus alstoni* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 2, p. 167. October 21, 1889. (Not of Anderson, 1878.)

1890. *Sciurus nayaritensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 2, p. VII, footnote. February, 1890. (Substitute for *alstoni* Allen.)

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Sciurus nayaritensis—Continued.

TYPE LOCALITY.—Sierra Valparaiso, State of Zacatecas, Mexico.

RANGE.—Pine and oak forests of the transition zone in the Sierra Madre and outlying spurs of western Zacatecas, southern Durango, eastern Tepic and southern Jalisco, Mexico. Altitude, 6,500 to 9,000 feet.

***Sciurus apache** Allen.

1893. *Sciurus apache* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 5, p. 29. March 16, 1893.

TYPE LOCALITY.—Mountains of northwestern Chihuahua (near Bavispe River?), Mexico.

RANGE.—Mixed oak and pine forests of transition zone in the Sierra Madre of western Durango and Chihuahua, eastern Sonora and northeastern Sinaloa, Mexico, and the Chiricahua Mountains of southern Arizona.

†***Sciurus arizonensis arizonensis** Coues.

1867. *Sciurus arizonensis* COUES, Amer. Nat., vol. 1, p. 357.

1885. *Sciurus arizonensis* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 595. 1885.

TYPE LOCALITY.—Fort Whipple, Yavapai County, Arizona.

***Sciurus arizonensis huachuca** Allen.

1894. *Sciurus arizonensis huachuca* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 6, p. 349. December 7, 1894.

TYPE LOCALITY.—Huachuca Mountains, southern Arizona.

RANGE.—Pine and oak forests of transition zone, in northeastern Sonora, Mexico, and Huachuca Mountains, southern Arizona.

***Sciurus æstuans chiriquensis** Bangs.

1902. *Sciurus (Guerlinguetus) æstuans chiriquensis* BANGS, Bull. Mus. Comp. Zool., vol. 39, p. 22. April, 1902.

TYPE LOCALITY.—Divala, Chiriqui, Panama.

Regarded by Allen (Bull. Amer. Mus. Nat. Hist., vol. 2, p. 66, February 29, 1904) as identical with *S. æstuans hoffmanni*.

***Sciurus æstuans hoffmanni** Peters.

1863. *Sciurus æstuans* var. *hoffmanni* PETERS, Monatsber. k. preuss. Akad. Wissensch. Berlin, p. 654.

1885. *Sciurus æstuans rufoniger*, TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 595. 1885.

1899. *Sciurus æstuans hoffmanni* NELSON, Proc. Washington Acad. Sci., vol. 1, p. 98. May 9, 1899.

TYPE LOCALITY.—Costa Rica.

RANGE.—Humid tropical forests of Costa Rica, south to valley of upper Cauca River, Colombia.

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†*Sciurus richmondi Nelson.

1898. *Sciurus richmondi* Nelson, Proc. Biol. Soc. Washington, vol. 12, p. 146. June 3, 1898.

Type Locality.—Escondido River, 50 miles above Bluefields, Nicaragua.

Range.—Dense humid tropical forests of the lowlands along the Escondido River.

*Sciurus variabilis morulus Bangs.

1885. *Sciurus variabilis* True, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 596. 1885.

1900. *Sciurus variabilis morulus* Bangs, Proc. New England Zool. Club, vol. 2, p. 43. September 20, 1900.

Type Locality.—Loma del Leon, Panama.

Genus MICROSCIURUS Allen.

1895. *Microsciurus* Allen, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 332. November 8, 1895. Type, *Sciurus alfari* Allen.

Microsciurus alfari alfari (Allen).

1895. *Sciurus* (*Microsciurus*) *alfari* Allen, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 333. November 8, 1895.

Type Locality.—Jimenez, Costa Rica.

†*Microsciurus alfari venustulus Goldman.

1912. *Microsciurus alfari venustulus* Goldman, Smiths. Misc. Coll., vol. 56, No. 36, p. 4. February 19, 1912.

Type Locality.—Gatun, Canal Zone, Panama.

*Microsciurus boquetensis (Nelson).

1903. *Sciurus* (*Microsciurus*) *boquetensis* Nelson, Proc. Biol. Soc. Washington, vol. 16, p. 121. September 30, 1903.

Type Locality.—Boquete, Chiriqui, Panama.

*Microsciurus browni (Bangs).

1902. *Sciurus* (*Microsciurus*) *browni* Bangs, Bull. Mus. Comp. Zool., vol. 39, p. 24. April, 1902.

Type Locality.—Bogava, Chiriqui, Panama.

Genus SYNTHEOSCIURUS Bangs.

1902. *Syntheosciurus* Bangs, Bull. Mus. Comp. Zool., vol. 39, p. 25. April, 1902. Type, *Syntheosciurus brochus* Bangs.

Syntheosciurus brochus Bangs.

1902. *Syntheosciurus brochus* Bangs, Bull. Mus. Comp. Zool., vol. 39, p. 25. April, 1902.

Type Locality.—Boquete, Chiriqui, Panama. Altitude, 7,000 feet.

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Family PETAURISTIDÆ.

Genus SCIUROPTERUS F. Cuvier.[1]

1825. *Sciuropterus* F. CUVIER, Dents des mammifères, p. 255 (description, pp. 161–162). Type, *Sciurus volans* LINNÆUS = *Pteromys russicus* TIEDEMANN.

Subgenus GLAUCOMYS Thomas.

1908. *Glaucomys* THOMAS, Ann. and Mag. Nat. Hist., ser. 8, vol. 1, p. 5. January, 1908. Type, *Mus volans* LINNÆUS.

***Sciuropterus alpinus alpinus** (Richardson).

1828. *Pteromys alpinus* RICHARDSON, Zool. Journ., vol. 3, p. 519.

1897. *Sciuropterus alpinus* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, p. 319. June, 1897.

TYPE LOCALITY.—Rocky Mountains, at the sources of the Athabasca and Peace Rivers [probably Smoky River branch], Alberta, Canada.

***Sciuropterus alpinus bangsi** Rhoads.

1897. *Sciuropterus alpinus bangsi* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, p. 321. June, 1897.

TYPE LOCALITY.—Idaho County, Idaho.

***Sciuropterus alpinus californicus** Rhoads.

1897. *Sciuropterus alpinus californicus* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, p. 323. June, 1897.

TYPE LOCALITY.—San Bernardino Mountains, California.

***Sciuropterus alpinus fuliginosus** Rhoads.

1897. *Sciuropterus alpinus fuliginosus* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, p. 321. June, 1897.

TYPE LOCALITY.—Cascade Mountains, near Martin Station, Kittitas County, Washington.

†*Sciuropterus alpinus klamathensis Merriam.

1897. *Sciuropterus alpinus klamathensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 225. July 15, 1897.

TYPE LOCALITY.—Fort Klamath, Klamath County, Oregon. Altitude, 4,200 feet.

***Sciuropterus alpinus lascivus** Bangs.

1899. *Sciuropterus alpinus lascivus* BANGS, Proc. New England Zool. Club., vol. 1, p. 69. July 31, 1899.

TYPE LOCALITY.—Tallac, El Dorado County, California.

[1] Eastern forms revised by Bangs (Proc. Biol. Soc. Washington, vol. 10, pp. 162–166, December 28, 1896), Western by Rhoads (Proc. Acad. Nat. Sci. Philadelphia, 1897, pp. 314–327, June, 1897). The species are here necessarily arranged alphabetically.

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***Sciuropterus alpinus olympicus** Elliot.

1899. *Sciuropterus alpinus olympicus* ELLIOT, Field Columb. Mus., publ. 30, zool. ser., vol. 1, p. 225. February 1, 1899.

TYPE LOCALITY.—Happy Lake, Clallam County, Washington.

***Sciuropterus alpinus oregonensis** (Bachman).

1839. *Pteromys oregonensis* BACHMAN, Journ. Acad. Nat. Sci. Philadelphia, vol. 8, p. 101.

1897. *Sciuropterus alpinus oregonensis* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, p. 324. June, 1897.

TYPE LOCALITY.—Pine woods of the Columbia, near the sea. Probably near St. Helen, Columbia County, Oregon. (See Rhoads, Proc. Acad. Nat. Sci. Philadelphia, 1897, p. 324, June, 1897.)

Regarded by Merriam (Proc. Biol. Soc. Washington, vol. 13, p. 151, June 13, 1900) as a distinct species.

†*Sciuropterus alpinus stephensi (Merriam).

1900. *Sciuropterus oregonensis stephensi* MERRIAM, Proc. Biol. Soc. Washington, vol. 13, p. 151. June 13, 1900.

1901. *Sciuropterus alpinus stephensi* MILLER and REHN, Proc. Boston Soc. Nat. Hist., vol. 30, p. 61. December 27, 1901.

TYPE LOCALITY.—Sherwood, Mendocino County, California. Altitude, 2,500 feet.

†*Sciuropterus alpinus zaphæus Osgood.

1905. *Sciuropterus alpinus zaphæus* OSGOOD, Proc. Biol. Soc. Washington, vol. 18, p. 133. April 18, 1905.

TYPE LOCALITY.—Helm Bay, Cleveland Peninsula, southeastern Alaska.

***Sciuropterus sabrinus sabrinus** (Shaw).

1801. *Sciurus sabrinus* SHAW, Gen. Zool., vol. 2, p. 157.

1885. *Sciuropterus volucella hudsonius* TRUE, Proc. U. S. Nat. Mus. vol. 7, 1884, p. 596. 1885. (Part.)

1896. *Sciuropterus sabrinus* BANGS, Proc. Biol. Soc. Washington, vol. 10, p. 162. December 28, 1896.

TYPE LOCALITY.—Severn River, Keewatin, Canada.

†*Sciuropterus sabrinus macrotis Mearns.

1898. *Sciuropterus sabrinus macrotis* MEARNS, Proc. U. S. Nat. Mus., vol. 21, p. 353. November 4, 1898.

TYPE LOCALITY.—Hunter Mountain, Catskill Mountains, Greene County, New York.

***Sciuropterus sabrinus makkovikensis** Sornborger.

1900. *Sciuropterus sabrinus makkovikensis* SORNBORGER, Ottawa Naturalist, vol. 14, p. 48. June 6, 1900.

TYPE LOCALITY.—Makkovik, Labrador.

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***Sciuropterus silus** Bangs.

1896. *Sciuropterus silus* BANGS, Proc. Biol. Soc. Washington, vol. 10, p. 163. December 28, 1896.

TYPE LOCALITY.—Top of Katis Mountain, near White Sulphur Springs, Greenbrier County, West Virginia. Altitude 3,200 feet.

***Sciuropterus volans volans** (Linnæus).

1758. [*Mus*] *volans* LINNÆUS, Syst. Nat., ed. 10, vol. 1, p. 63.

1885. *Sciuropterus volucella volucella* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 596. 1885. (Part.)

1890. *S*[*ciuropterus*] *volans* JORDAN, Manual of the vertebrate Animals of the northern United States, ed. 5, p. 321.

TYPE LOCALITY.—Virginia. (See Bangs, Proc. Biol. Soc. Washington, vol. 10, p. 165, December 28, 1896.)

†*Sciuropterus volans goldmani Nelson.

1904. *Sciuropterus volans goldmani* NELSON, Proc. Biol. Soc. Washington, vol. 17, p. 148. October 6, 1904.

TYPE LOCALITY.—Twenty miles southeast of Teopisca, Chiapas, Mexico.

***Sciuropterus volans querceti** Bangs.

1896. *Sciuropterus volans querceti* BANGS, Proc. Biol. Soc. Washington, vol. 10, p. 166. December 28, 1896.

TYPE LOCALITY.—Citronelle, Citrus County, Florida.

†*Sciuropterus yukonensis Osgood.

1900. *Sciuropterus yukonensis* OSGOOD, North Amer. Fauna, No. 19, p. 25. October 6, 1900.

TYPE LOCALITY.—Camp Davidson, Yukon River, near Alaska-Canada boundary, Yukon, Canada.

Family CASTORIDÆ.

Genus CASTOR Linnæus.

1758. *Castor* LINNÆUS, Syst. Nat., ed. 10, vol. 1, p. 58. Type, *Castor fiber* LINNÆUS.

***Castor canadensis canadensis** Kuhl.

1820. *Castor canadensis* KUHL, Beiträge z. Zoologie, p. 64.

1885. *Castor fiber* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 596. 1885.

1890. *Castor canadensis* MERRIAM, North Amer. Fauna, No. 3, p. 59. September 11, 1890.

TYPE LOCALITY.—Hudson Bay.

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Castor canadensis carolinensis Rhoads.

1898. *Castor canadensis carolinensis* RHOADS, Trans. Amer. Philos. Soc., n. s., vol. 19, p. 420. September, 1898.

TYPE LOCALITY.—Dan River, near Danbury, Stokes County, North Carolina.

†***Castor canadensis frondator** Mearns.

1897. *Castor canadensis frondator* MEARNS, Preliminary diagnoses of new mammals of the genera Sciurus, Castor, Neotoma and Sigmodon, from the Mexican border of the United States, p. 2. March 5, 1897. (Reprint: Proc. U. S. Nat. Mus., vol. 20, p. 503. January 19, 1898.)

TYPE LOCALITY.—San Pedro River, State of Sonora, Mexico, near monument No. 98 of the Mexican boundary line.

***Castor canadensis leucodonta** Gray.

1869. *Castor canadensis leucodonta* GRAY, Ann. and Mag. Nat. Hist., ser. 4, vol. 4, p. 293. October, 1869.

1898. *Castor canadensis pacificus* RHOADS, Trans. Amer. Philos. Soc., n. s., vol. 19, p. 422. September, 1898. (Lake Keechelus, Cascade Mountains, Kittitas County, Washington.)

1907. *Castor canadensis leucodontus* OSGOOD, Proc. Biol. Soc. Washington, vol. 20, p. 47. April 18, 1907.

TYPE LOCALITY.—Vancouver Island, British Columbia.

***Castor canadensis phæus** Heller.

1909. *Castor canadensis phæus* HELLER, Univ. California Publ. Zool., vol. 5, p. 250. February 18, 1909.

TYPE LOCALITY.—Pleasant Bay, Admiralty Island, Alaska.

†***Castor canadensis texensis** Bailey.

1905. *Castor canadensis texensis* BAILEY, North Amer. Fauna, No. 25, p. 122. October 24, 1905.

TYPE LOCALITY.—Cummings Creek, Colorado County, Texas.

***Castor subauratus** Taylor.

1912. *Castor subauratus* TAYLOR, Univ. California Publ. Zool., vol. 10, p. 167. May 21, 1912.

TYPE LOCALITY.—Grayson, San Joaquin River, Stanislaus County, California.

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Order LAGOMORPHA.[1]

Family OCHOTONIDÆ.

Genus OCHOTONA Link.

1795. *Ochotona* LINK, Zool. Beyträge, vol. 1, pt. 2, p. 74. Type, *Lepus ogotona* PALLAS.

***Ochotona albatus** Grinnell.

1912. *Ochotona albatus* GRINNELL, Univ. California Publ. Zool., vol. 10, p. 125. January 31, 1912.

TYPE LOCALITY.—Near Cottonwood Lakes, Sierra Nevada Mountains, Inyo County, California. Altitude, 11,000 feet.

†*Ochotona collaris (Nelson).

1893. *Lagomys collaris* NELSON, Proc. Biol. Soc. Washington, vol. 8, p. 117. December 21, 1893.

1897. [*Ochotona*] *collaris* TROUESSART, Catal. Mamm., viv. foss., p. 648.

TYPE LOCALITY.—Near head of Tanana River, about 200 miles south of Fort Yukon, Alaska.

***Ochotona cinnamomea** Allen.

1905. *Ochotona cinnamomea* ALLEN, Mus. Brooklyn Inst. Arts and Sci., Sci. Bull., vol. 1, p. 121. March 31, 1905.

TYPE LOCALITY.—Briggs Meadows, Beaver Range, Beaver County, Utah. (Altitude, 11,000 feet.)

***Ochotona cuppes** Bangs.

1899. *Ochotona cuppes* BANGS, Proc. New England Zool. Club, vol. 1, p. 40. June 5, 1899.

TYPE LOCALITY.—Monashee Divide, Gold Range, British Columbia, Canada. Altitude, 4,000 feet.

Ochotona figginsi Allen.

1912. *Ochotona figginsi* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 31, p. 103. May 28, 1912.

TYPE LOCALITY.—Pagoda Peak, Routt County, Colorado.

†*Ochotona levis Hollister.

1912. *Ochotona levis* HOLLISTER, Proc. Biol. Soc. Washington, vol. 25, p. 57. April 13, 1912.

TYPE LOCALITY.—Chief Mountain Lake, Flathead County, Montana.

[1] Families and genera revised by Lyon, Smithsonian Miscell. Coll., vol. 45, pp. 321–447, June 15, 1904. For status of group see Gidley, Science, N. S., vol. 36, pp. 285–287, August 30, 1912.

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***Ochotona minima** (Lord).

1863. *Lagomys minimus* LORD, Proc. Zool. Soc. London, p. 96.

1899. *Ochotona minimus* BANGS, Proc. New England Zool. Club, vol. 1, p. 39. June 5, 1899.

TYPE LOCALITY.—Ptarmigan Hill, Cascade Range, British Columbia, Canada. Altitude, about 7,000 feet.

***Ochotona princeps** (Richardson).

1828. *Lepus* (*Lagomys*) *princeps* RICHARDSON, Zool. Journ., vol. 3, p. 520.

1897. [*Ochotona*] *princeps* TROUESSART, Catal. Mamm. viv. foss., p. 648.

TYPE LOCALITY.—"Stony places in the Rocky Mountains"; probably head of Athabaska River, Alberta (see Preble, North Amer. Fauna, No. 27, p. 198, October 26, 1908.)

***Ochotona saxatilis** Bangs.

1885. *Lagomys princeps* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 600. 1885. (Part.)

1899. *Ochotona saxatilis* BANGS, Proc. New England Zool. Club, vol. 1, p. 41. June 5, 1899.

TYPE LOCALITY.—Near timberline, Snowy Range, Montgomery, Park County, Colorado.

†*Ochotona schisticeps (Merriam).

1889. *Lagomys schisticeps* MERRIAM, North Amer. Fauna, No. 2, p. 11. October 30, 1889.

1897. *Ochotona schisticeps* MERRIAM, Mazama, vol. 1, p. 223. October, 1897.

TYPE LOCALITY.—Donner, Placer County, California.

Ochotona taylori Grinnell.

1912. *Ochotona taylori* GRINNELL, Proc. Biol. Soc. Washington, vol. 25, p. 129. July 31, 1912.

TYPE LOCALITY.—Warren Peak, Warner Mountains, Modoc County, California. Altitude, 9,000 feet.

†*Ochotona uinta Hollister.

1912. *Ochotona uinta* HOLLISTER, Proc. Biol. Soc. Washington, vol. 25, p. 58. April 13, 1912.

TYPE LOCALITY.—Uintah Mountains, Utah.

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Family LEPORIDÆ.

Genus LEPUS Linnæus.[1]

1758. *Lepus* LINNÆUS, Syst. Nat., ed. 10, vol. 1, p. 57. Type, *Lepus timidus* LINNÆUS.

Subgenus LEPUS Linnæus.

1904. *Pœcilolagus* LYON, Smiths. Miscell. Coll., vol. 45, p. 395. June 15, 1904. Type, *Lepus americanus* ERXLEBEN.

***Lepus arcticus arcticus** Ross.[2]

1819. *Lepus arcticus* Ross, Ross's Voyage, 8vo. ed., vol. 2, append. 4, p. 151.

(See note, page 401.)

1896. *Lepus arcticus* RHOADS, Amer. Nat., vol. 30, p. 235. March, 1896.

†1899. *Lepus labradorius* MILLER, Proc. Biol. Soc. Washington, vol. 13, p. 39. May 29, 1899. (Fort Chimo, Ungava, Canada.)

TYPE LOCALITY.—Baffin Land, southeast of Cape Bowen.

RANGE.—Baffin Land, and probably adjoining islands to the west; extreme north coast of Hudson Bay and south across Hudson Strait to include most of Ungava to Great Whale River on the east shore of Hudson Bay, and Labrador north of Hamilton Inlet. Vertical range from sea level to an undetermined altitude; zonal range, Arctic.

***Lepus arcticus bangsii** Rhoads.

1896. *Lepus arcticus bangsii* RHOADS, Amer. Nat., vol. 30, p. 236. March, 1896.

TYPE LOCALITY.—Cŏdroy, Newfoundland.

RANGE.—Newfoundland and probably adjacent part of Labrador north to Hamilton Inlet, and extreme eastern Quebec. Vertical range from sea level up to an undetermined altitude; zonal range, Arctic.

†*Lepus arcticus canus Preble.

1902. *Lepus arcticus canus* PREBLE, North Amer. Fauna No. 22, p. 59. October 31, 1902.

TYPE LOCALITY.—Hubbart Point, west coast of Hudson Bay, Keewatin, Canada.

RANGE.—Barren Grounds of northern Canada south to York Factory, Keewatin, and northern shores of Great Slave and Great Bear Lakes. Vertical range from sea level up to an undetermined altitude; zonal range, Arctic.

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[1] Revised by Nelson, North Amer. Fauna, No. 29, pp. 58–158, August 31, 1909.

[2] On page 170 of the same volume this species is named *Lepus glacialis* by Leach. (See Rhoads, Amer. Nat., vol. 30, pp. 234–235, March, 1896; Stone, Auk, vol. 13, p. 183–187, Apr., 1896; Merriam, Science, n. s., vol. 3, pp. 564–565, Apr. 10, 1896; Rhoads, Science, n. s., vol. 3, pp. 843–844, June 5, 1896; Merriam, Science, n. s., vol. 3, p. 845, June 5, 1896.)

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***Lepus grœnlandicus** Rhoads.

1896. *Lepus grœnlandicus* RHOADS, Amer. Nat., vol. 30, p. 236. March, 1896.

TYPE LOCALITY.—Robertson Bay, northwestern Greenland.

RANGE.—Northwestern coasts of northern Greenland and Ellesmere Land. Vertical range from sea level to an undetermined altitude; zonal range, Arctic.

†*Lepus othus Merriam.

1900. *Lepus othus* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 28. March 14, 1900.

TYPE LOCALITY.—St. Michael, Alaska.

RANGE.—Tundras of northern and northwestern Alaska, exclusive of the Peninsula and Bristol Bay section. Vertical range from sea level up to over 2,000 feet altitude; zonal range, Arctic.

†*Lepus poadromus Merriam.

1900. *Lepus poadromus* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 29. March 14, 1900.

TYPE LOCALITY.—Stepovak Bay, Alaska Peninsula, Alaska.

RANGE.—Peninsula of Alaska and Bristol Bay district of Alaska. Vertical range from sea level up to an undetermined altitude; zonal range, Arctic.

***Lepus campestris campestris** Bachman.

1837. *Lepus campestris* BACHMAN, Journ. Acad. Nat. Sci. Philadelphia, vol. 7, p. 349.

1885. *Lepus campestris* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 601. 1885.

TYPE LOCALITY.—Plains of the Saskatchewan, Canada (probably near Carlton House).

RANGE.—Great Plains of Saskatchewan in Alberta, Saskatchewan, and Manitoba, Canada, and thence south on plains of the United States, east of the Rocky Mountains, over Montana, Wyoming (except extreme southwestern part), the Dakotas, Minnesota to the extreme southeastern corner (Lanesboro), Iowa east to the Mississippi River (Muscatine), Nebraska, northern half of Kansas, Colorado east of summit of the Rocky Mountains, and middle northern border of New Mexico. Vertical range from less than 1,000 feet in Iowa up to at least 10,000 feet on the mountains of Colorado; zonal range, mainly upper Sonoran and Transition on the plains of the western United States, extending into Canadian on the mountains and in the northern part of its range.

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***Lepus campestris townsendii** (Bachman).

1839. *Lepus townsendii* BACHMAN, Journ. Acad. Nat. Sci. Philadelphia, vol. 8, pt. 1, p. 90, pl. 2.

1909. *Lepus campestris townsendi* NELSON, North Amer. Fauna No. 29, p. 78. August 31, 1909.

TYPE LOCALITY.—Fort Walla Walla, Washington.

RANGE.—Great Basin region, including east slopes of Cascade Range, and thence east to Rocky Mountains, occupying eastern Washington and Oregon, and north to Fairview, in Okanogan Valley, British Columbia; and from the northeastern corner of California easterly through northern Nevada, western and southern Idaho, extreme southwestern Wyoming, most of Utah, and Colorado from western border to summit of Rocky Mountains. Vertical range from about 1,000 feet in eastern Washington to 12,000 feet in Colorado; zonal range mainly upper Sonoran and transition, but reaches up to Hudsonian in the mountains of Colorado.

†*Lepus campestris sierræ Merriam.

1904. *Lepus campestris sierræ* MERRIAM, Proc. Biol. Soc. Washington, vol. 17, p. 132. July 14, 1904.

TYPE LOCALITY.—Hope Valley, Alpine County, California.

RANGE.—In summer, high slopes of Sierra Nevada of California, probably from Mount Shasta south to Mount Whitney; in winter, ranging down the east slope to Mono Lake region on the sagebrush plains of eastern California. Vertical range in summer from about 9,000 to over 12,000 feet; zonal range, boreal.

***Lepus americanus americanus** Erxleben.

1777. [*Lepus*] *americanus* ERXLEBEN, Syst. Regni Anim., vol. 1, p. 330.

1885. *Lepus americanus americanus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 601. 1885.

TYPE LOCALITY.—Vicinity of Hudson Bay, Canada.

RANGE.—Region about southern end of Hudson Bay, including southern Keewatin; southeastern Mackenzie; most of Saskatchewan; Manitoba; east through northern Ontario (including Isle Royale and Michipicoten Island, Lake Superior); northern Quebec; all of Ungava except extreme northern part; Labrador; south in the United States in all of Michigan north of Saginaw (except western half of northern peninsula), and west in an isolated colony on the Bighorn Mountains, Wyoming. Vertical range, from sea level at Hudson Bay to about 2,000 feet near Lake Superior and 10,000 feet in the Bighorn Mountains of Wyoming; zonal range, mainly Canadian.

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***Lepus americanus struthopus** Bangs.

1898. *Lepus americanus struthopus* BANGS, Proc. Biol. Soc. Washington, vol. 12, p. 81. March 24, 1898.

TYPE LOCALITY.—Digby, Nova Scotia, Canada.

RANGE.—Maine, east of Penobscot River, Nova Scotia, New Brunswick, eastern Quebec (south of lower St. Lawrence and including Magdalen Islands), and Newfoundland. Vertical range, from sea level up to over 2,500 feet altitude in New Brunswick; zonal range, Canadian.

***Lepus americanus virginianus** (Harlan).

1825. *Lepus virginianus* HARLAN, Fauna Americana, p. 196.

1877. [*Lepus americanus*] var. *virginianus* ALLEN, Monogr. N. Amer. Rodentia, p. 307. August, 1877.

1885. *Lepus americanus virginianus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 601. 1885.

TYPE LOCALITY.—Blue Mountains, northeast of Harrisburg, Pennsylvania.

RANGE.—Mountains of West Virginia and Virginia north through Maryland, Pennsylvania, New York, New Jersey, Delaware, Connecticut, Rhode Island, Massachusetts, Vermont, New Hampshire, most of Maine east to Penobscot River and Mount Katahdin, and extreme southern Ontario. Vertical range, from near sea level in Rhode Island up to over 4,000 feet in the Adirondacks of New York; zonal range, Canadian.

***Lepus americanus phæonotus** Allen.

1899. *Lepus americanus phæonotus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 12, p. 11. March 4, 1899.

TYPE LOCALITY.—Hallock, Kittson County, Minnesota.

RANGE.—Western half of northern peninsula of Michigan, northern Wisconsin, northern Minnesota, and north into extreme western Ontario, and southern Manitoba. Vertical range, from about 900 to 2,000 feet in northern peninsula of Michigan; zonal range, Canadian.

***Lepus americanus bishopi** (Allen).

1899. *Lepus bishopi* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 12, p. 11. March 4, 1899.

1909. *Lepus americanus bishopi* NELSON, North Amer. Fauna, No. 29, p. 97. August 31, 1909.

TYPE LOCALITY.—Mill Lake, Turtle Mountains, near northern border of North Dakota.

RANGE.—Known only from type locality, Turtle Mountains, North Dakota.

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†*Lepus americanus macfarlani Merriam.

1900. *Lepus americanus macfarlani* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 30. March 14, 1900.

†1900. *Lepus saliens* OSGOOD, North Amer. Fauna, No. 19, p. 39. October 6, 1909. (Caribou Crossing, between Lake Bennett and Lake Tagish, Yukon, Canada.)

1907. ? *Lepus niediecki* MATSCHIE, Niedieck's Kreuzfahrten im Beringmeer, p. 240. Kassilof Lake, Kenai Peninsula, Alaska. (Not mentioned by Nelson.)

TYPE LOCALITY.—Fort Anderson, near mouth of Anderson River, Mackenzie, Canada.

RANGE.—Wooded parts of Alaska, in upper Yukon region, and southwest to Cook Inlet; base of Alaska Peninsula and all of Yukon Territory, western Mackenzie, northern British Columbia, and northwestern Alberta, Canada. Its northern limit coincides with that of the trees. Vertical range, in the Mackenzie River region, from near sea level up to over 2,000 feet altitude; zonal range, mainly Hudsonian.

†*Lepus americanus dalli Merriam.

1900. *Lepus americanus dalli* MERRIAM, Proc. Washington Acad. Sci., vol. 2, p. 29. March 14, 1900.

TYPE LOCALITY.—Nulato River, Alaska.

Range.—Wooded parts of western Alaska from below Fort Yukon to coast of Bering Sea at mouth of Yukon, and from Bristol Bay north to tree limit. Vertical range, from near sea level on lower Yukon up to about 2,000 feet on adjacent mountains; zonal range, mainly Hudsonian.

*Lepus americanus columbiensis Rhoads.

1895. *Lepus americanus columbiensis* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, p. 242. July 2, 1895.

TYPE LOCALITY.—Vernon, British Columbia, Canada.

RANGE.—Rocky Mountain region of southeastern British Columbia (except extreme southeastern corner) and western Alberta, Canada (from Vernon, British Columbia, to Jasper House, Alberta). Vertical and zonal ranges not definitely known.

†*Lepus washingtonii washingtonii Baird.

1855. *Lepus washingtonii* BAIRD, Proc. Acad. Nat. Sci. Philadelphia, vol. 7, p. 333.

1885. *Lepus americanus washingtoni* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 601. 1885.

1895. *Lepus washingtoni* RHOADS, Proc. Acad. Nat. Sci. Philadelphia, p. 241. July 2, 1895.

TYPE LOCALITY.—Puget Sound.

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Lepus washingtonii washingtonii—Continued.

RANGE.—Washington and north to Fraser River, British Columbia, from the western slope of the Cascade Mountains to the sea (including the Olympic Mountains). Vertical range from sea level to about 3,500 feet on the west slope of the Cascades; zonal range mainly transition and Canadian.

†***Lepus washingtonii klamathensis** (Merriam).

1899. *Lepus klamathensis* MERRIAM, North Amer. Fauna, No. 16, p. 100. October 28, 1899.

1909. *Lepus washingtoni klamathensis* NELSON, North Amer. Fauna, No. 29, p. 107. August 31, 1909.

TYPE LOCALITY.—Head of Wood River, near Fort Klamath, Klamath County, Oregon.

RANGE.—Cascade Mountains and adjacent parts of Oregon and higher parts of Sierra Nevada of eastern California south at least to Pacific, Eldorado County. Vertical range from about 4,000 feet in mountains near Fort Klamath up probably to timber line; zonal range, mainly Canadian.

†***Lepus bairdii bairdii** (Hayden).

1869. *Lepus bairdii* HAYDEN, Amer. Nat., vol. 3, p. 115. May, 1869.

1885. *Lepus americanus bairdii* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 601. 1885.

1909. *Lepus bairdi* NELSON, North Amer. Fauna, No. 29, p. 109. August 31, 1909.

TYPE LOCALITY.—Columbia Valley, Wind River Mountains, Fremont County, Wyoming.

RANGE.—Higher parts of Rocky Mountains from Idaho, Montana, and extreme eastern Washington and Oregon southeast through western Wyoming, eastern Utah, and middle Colorado to central New Mexico; also probably extreme southern Alberta and extreme southeastern British Columbia, though no specimens have been seen from these areas. Vertical range from about 8,000 to 11,000 feet (timber line) in northern New Mexico and Colorado; zonal range, Canadian and Hudsonian.

***Lepus bairdii cascadensis** Nelson.

1907. *Lepus bairdi cascadensis* NELSON, Proc. Biol. Soc. Washington, vol. 20, p. 87. December 11, 1907.

TYPE LOCALITY.—Roab's ranch, near Hope, British Columbia.

RANGE.—Cascade Mountains near extreme southern border of British Columbia from Hope, on Fraser River, south along east side of mountains at least to Martin and Easton, Washington. Vertical range undetermined; zonal range probably Canadian and Hudsonian.

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Subgenus MACROTOLAGUS Mearns.

1895. *Macrotolagus* MEARNS, Science, n. s., vol. 1, p. 698. June 21, 1895. Type, *Lepus alleni* MEARNS. (See Mearns, Proc. U. S. Nat Mus., vol. 18, p. 552, June 24, 1896.)

***Lepus alleni alleni** Mearns.

1890. *Lepus alleni* MEARNS, Bull. Amer. Mus. Nat. Hist., vol. 2, p. 294. February 21, 1890.

TYPE LOCALITY.—Rillito, on the Southern Pacific Railroad, Pima County, Arizona.

RANGE.—The desert plains of southern Arizona, from Phoenix, Tucson, and Benson, south through similar country to a little beyond Guaymas, in northern Sonora, Mexico. Vertical range from near sea level in Sonora up to about 3,500 feet in southern Arizona; zonal distribution, lower Sonoran.

***Lepus alleni palitans** Bangs.

1900. *Lepus* (*Macrotolagus*) *alleni palitans* BANGS, Proc. New England Zool. Club, vol. 1, p. 85. February 23, 1900.

TYPE LOCALITY.—Aguacaliente, about 40 miles southeast of Mazatlan, State of Sinaloa, Mexico.

RANGE.—Coastal plains of northwest Mexico from a little south of Guaymas, in southern Sonora, south through Sinaloa to Rosa Morada in northern Tepic. Vertical range from near sea level to about 2,000 feet in southern Sonora; zonal range arid tropical and lower part of lower Sonoran zone.

†***Lepus alleni tiburonensis** Townsend.

1912. *Lepus alleni tiburonensis* TOWNSEND, Bull. Amer. Mus. Nat. Hist., vol. 31, p. 120. June 14, 1912.

TYPE LOCALITY.—Tiburon Island, Gulf of California, Mexico.

†***Lepus gaillardi gaillardi** Mearns.

1896. *Lepus gaillardi* MEARNS, Proc. U. S. Nat. Mus., vol. 18, p. 560. June 24, 1896.

TYPE LOCALITY.—West Fork of the Playas Valley, near monument No. 63, Mexican boundary line, Grant County, New Mexico.

RANGE.—Grassy plains of southwestern New Mexico near Mexican border and southward, along eastern base of Sierra Madre, through adjacent parts of northern Chihuahua. Vertical range from about 4,500 to 7,000 feet in northwestern Chihuahua; zonal range mainly upper Sonoran extending into lower part of transition zone.

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Lepus gaillardi battyi Allen.

1903. *Lepus* (*Macrotalgus*) *gaillardi battyi* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 19, p. 607. November 12, 1903.

TYPE LOCALITY.—Rancho Santuario, northwestern Durango, Mexico.

RANGE.—East base of Sierra Madrea and adjacent plains of northwestern Durango and southwestern Chihuahua. Vertical range from about 4,500 to 6,500 feet in north-central Durango; zonal range, mainly upper Sonoran.

***Lepus callotis** Wagler.

1830. *Lepus callotis* WAGLER, Nat. Syst. der Amphibien, p. 23.

1885. *Lepus callotis callotis* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 601. 1885. (Part.)

TYPE LOCALITY.—"Mexico."

RANGE.—Open plains of southern half of Mexican table-land from central Durango, northern Zacatecas, and central San Luis Potosi south through Aguas Calientes, most of Jalisco, northern Michoacan, Guanajuato, Queretaro, State of Mexico, Federal District, Hidalgo, Puebla, Morelos, the northwestern half of Oaxaca, and the northern half of Guerrero. Vertical range from about 2,500 feet in Morelos to 8,500 feet in northern Puebla; zonal range, upper and lower Sonoran and into upper border of arid tropical zone.

†***Lepus altamiræ** (Nelson).

1904. *Lepus merriami altamiræ* NELSON, Proc. Biol. Soc. Washington, vol. 17, p. 109. May 18, 1904.

1909. *Lepus altamiræ* NELSON, North Amer. Fauna, No. 29, p. 124. August 31, 1909.

TYPE LOCALITY.—Alta Mira, Tamaulipas, Mexico.

RANGE.—Coastal plains of southern Tamaulipas, extreme northern Vera Cruz, and eastern border of San Luis Potosi, Mexico. Vertical range from sea level to at least 500 feet in Tamaulipas; zonal range, arid tropical.

***Lepus flavigularis** (Wagner).

1884. *Lepus callotis* var. *γ flavigularis* WAGNER, Schreber's Säugthiere, Suppl., vol. 4, p. 106. 1884.

1909. *Lepus flavigularis* NELSON, North Amer. Fauna, No. 29, p. 125. August 31, 1909.

TYPE LOCALITY.—Mexico (probably near Tehuantepec City, Oaxaca).

RANGE.—Coastal plains and bordering foothills on southern end of Isthmus of Tehuantepec, in southern Oaxaca, and thence along Pacific coast to beyond Tonala, Chiapas. Vertical range from sea level up to about 2,000 feet in southern Oaxaca; zonal range, arid tropical.

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*Lepus californicus californicus Gray.

1837. *Lepus californica* Gray, Charlesworth's Mag. Nat. Hist., vol. 1, p. 586.

1885. *Lepus californicus* True, Proc. U. S. Nat. Mus., vol. 7, (1884), p. 601. 1885.

Type Locality.—"St. Antoine" (Monterey County?), California.

Range.—Humid coast belt of California from Gaviota Pass north to Cape Mendocino, spreading inland over extreme northern end of San Joaquin Valley, all of Sacramento Valley, up through the adjacent foothills of the Sierra, and north through Shasta Valley to Rogue River and Willamette Valley in Oregon. Vertical range from sea level at San Francisco up to about 3,000 feet altitude on west slope of the Sierra; zonal range, mainly upper Sonoran and lower border of the transition zone.

**Lepus californicus wallawalla (Merriam).

1904. *Lepus texianus wallawalla* Merriam, Proc. Biol. Soc. Washington, vol. 17, p. 137. July 14, 1904.

1909. *Lepus californicus wallawalla* Nelson, North Amer. Fauna, No. 29, p. 132. August 31, 1909.

Type Locality.—Touchet, Plains of the Columbia, Washington.

Range.—Northeastern California, northwestern Nevada, and north through eastern Oregon and eastern Washington. Vertical range, from about 1,000 feet in eastern Washington to 6,000 feet in northeastern California; zonal range, mainly upper Sonoran extending into lower part of transition zone.

*Lepus californicus richardsonii (Bachman).

1839. *Lepus richardsonii* Bachman, Journ. Acad. Nat. Sci. Philadelphia, vol. 8, pt. 1, p. 88. 1839.

†1904. *Lepus tularensis* Merriam, Proc. Biol. Soc. Washington, vol. 17, p. 136. July 14, 1904. (Alila, Tulare County, California.)

1909. *Lepus californicus richardsoni* Nelson, North American Fauna, No. 29, p. 133. August 31, 1909.

Type Locality.—California (exact locality unknown, but probably from near Jolon, Monterey County, near type locality of *californicus*).

Range.—San Joaquin Valley, California, and adjacent arid valleys to the west and surrounding foothills. Vertical range, from below 500 feet in Salinas Valley up to 4,000 feet in mountains about San Joaquin Valley; zonal range, mainly lower Sonoran, extending up through upper Sonoran.

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***Lepus californicus bennettii** (Gray).

1844. *Lepus bennettii* GRAY, Zoology Voy. *Sulphur*, p. 35, pl. 14. 1844.

1909. *Lepus californicus bennetti* NELSON, North Amer. Fauna, No. 29, p. 136. August 31, 1909.

TYPE LOCALITY.—San Diego, California.

RANGE.—Southern California west of summit of Coast Range from near Gaviota Pass to Mexican border and south along the coast to San Quentin, Lower California, Vertical range, from sea level at San Diego up to about 6,000 feet altitude in mountains to the eastward; zonal range, mainly upper Sonoran.

***Lepus californicus deserticola** (Mearns).

1896. *Lepus texianus deserticola* MEARNS, Proc. U. S. Nat. Mus., vol. 18, p. 564. June 24, 1896.

1909. *Lepus californicus deserticola* NELSON, North Amer. Fauna, No. 29, p. 137. August 31, 1909.

TYPE LOCALITY.—Western edge of Colorado Desert, at the base of Coast Range Mountains, San Diego County, California.

RANGE.—Arid desert areas of northeastern Lower California, east of San Pedro Martir and Laguna Hansen Mountains, south to Calamahue Bay, and extreme northwestern Sonora in Mexico; and thence north through southeastern California (east of Coast Range and Sierra Nevada) at least to Mono Lake, through most of Nevada, except the northwestern part north of Pyramid Lake, most of Utah and Southern Idaho, to Pahsimeroi Valley, and east to Phoenix and San Francisco Mountains in Arizona. Vertical range from below sea level in the Colorado Desert to 7,500 feet in the border of the pine forest on the Mongollon plateau of northern Arizona, and to 9,000 feet in the San Bernardino Mountains, California; zonal range mainly upper and lower Sonoran.

***Lepus californicus eremicus** (Allen).

1894. *Lepus texianus eremicus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 6, p. 347. December 7, 1894.

1909. *Lepus californicus eremicus* NELSON, North Amer. Fauna, No. 29, p. 140. August 31, 1909.

TYPE LOCALITY.—Fairbank, Cochise County, Arizona.

RANGE.—Northern Sonora (Hermosillo), Mexico, north throughout southern Arizona east of Phoenix and south of the high mountains; also along the border in southwestern New Mexico and extreme northwestern Chihuahua nearly to the Hachita Mountains. Vertical distribution from about 2,000 feet west of Tucson to 5,000 feet near Wilcox; zonal distribution mainly lower Sonoran, extending up into lower part of upper Sonoran zone.

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***Lepus californicus texianus** (Waterhouse).

1848. *Lepus texianus* WATERHOUSE, Nat. Hist. Mamm., vol. 2, p. 136.

†1896. *Lepus texianus griseus* MEARNS, Proc. U. S. Nat. Mus., vol. 18, p. 562. June 24, 1896. (Fort Hancock, El Paso County, Texas.)

1903. *Lepus texianus micropus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 19, p. 605. November 12, 1903. (Rio del Bocas, northwest Durango, Mexico.)

1909. *Lepus californicus texianus* NELSON, North Amer. Fauna, No. 29, p. 142. August 31, 1909.

TYPE LOCALITY.—Unknown, but probably in western Texas.

RANGE.—Northern Durango, Mexico, north through Chihuahua, arid western Texas (except northern Panhandle), New Mexico, (except northeastern part), northeastern Arizona (valley of Little Colorado River), and southwestern part of Colorado. Vertical range from about 1,500 feet above Del Rio, Texas, to 7,500 feet altitude on mountains of New Mexico; zonal range mainly upper Sonoran, but extending down into lower Sonoran and up in summer into lower border of Transition zone.

***Lepus californicus melanotis** (Mearns).

1885. *Lepus callotis texianus* TRUE, Proc. U. S. Nat. Mus., vol. 7, (1884), p. 601. 1885. (Part.)

1890. *Lepus melanotis* MEARNS, Bull. Amer. Mus. Nat. Hist., vol. 2, p. 297. February 21, 1890.

1909. *Lepus californicus melanotis* NELSON, North Amer. Fauna, No. 29, p. 146. August 31, 1909.

TYPE LOCALITY. Independence, Montgomery County, Kansas.

RANGE.—Great Plains from east-central and northern Texas, northeastern New Mexico, and north through western half of Indian Territory, all of Oklahoma, extreme southwestern part of Missouri, all of Kansas and Nebraska, except perhaps extreme eastern parts, southwestern Dakota, southeastern Wyoming, and all of Colorado east of Rocky Mountains. Vertical range from less than 1,000 feet near Independence, Kansas, to over 6,000 feet on east base of mountains in Colorado; zonal range mainly upper Sonoran.

†*Lepus californicus merriami (Mearns).

1896. *Lepus merriami* MEARNS, Preliminary diagnoses of new mammals from the Mexican border of the United States, p. 2. March 25, 1896. (Reprint: Proc. U. S. Nat. Mus., vol. 18, p. 443. May 23, 1896.)

1909. *Lepus californicus merriami* NELSON, North Amer. Fauna, No. 29, p. 148. August 31, 1909.

TYPE LOCALITY.—Fort Clark, Kinney County, Texas.

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Lepus californicus merriami—Continued.

RANGE.—All of southern Texas from coast prairies near Trinity River west to a little above Del Rio on the Rio Grande, north to Mason and Antioch, and south across the Rio Grande through northern parts of Tamaulipas, Nuevo Leon, and Coahuila, Mexico. Vertical range from sea level, southern Texas up to about 5,000 feet in mountains of Coahuila, Mexico; zonal range mainly lower Sonoran and into lower border of upper Sonoran in Coahuila, Mexico.

†***Lepus californicus asellus** (Miller).

1899. *Lepus asellus* MILLER, Proc. Acad. Nat. Sci., Philadelphia, p. 380. October 5, 1899.

1909. *Lepus californicus asellus* NELSON, North Amer. Fauna, No. 29, p. 150. August 31, 1909.

TYPE LOCALITY.—San Luis Potosi, State of San Luis Potosi, Mexico.

RANGE.—Central eastern part of Mexican Table-land from southern Coahuila, Nuevo Leon, and extreme western Tamaulipas southwest through San Luis Potosi, Zacatecas, and Aguas Calientes to northeastern Jalisco. Vertical range from about 3,500 to 7,500 feet altitude in San Luis Potosi; zonal range, upper and lower Sonoran zones.

†***Lepus californicus festinus** (Nelson).

1904. *Lepus festinus* NELSON, Proc. Biol. Soc. Washington, vol. 17, p. 108. May 18, 1904.

1909. *Lepus californicus festinus* NELSON, North. Amer. Fauna, No. 29, p. 151. August 31, 1909.

TYPE LOCALITY.—Irolo, Hidalgo, Mexico.

RANGE.—Southeastern part of Mexican Table-land in States of Tlaxcala, northern Puebla, Hidalgo, northern part of State of Mexico, Queretaro, Guanajuato, and probably northeastern Jalisco. Vertical range from about 6,000 to 8,500 feet in Hidalgo; zonal range mainly upper Sonoran, extending into upper border of lower Sonoran zone.

***Lepus californicus martirensis** (Stowell).

1895. *Lepus martirensis* STOWELL, Proc. California Acad. Sci., ser. 2, vol. 5, p. 51. May 28, 1895.

1909. *Lepus californicus martirensis* NELSON, North Amer. Fauna, No. 29, p. 152. August 31, 1909.

TYPE LOCALITY.—San Pedro Martir Mountains, Lower California, Mexico.

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Lepus californicus martirensis—Continued.

RANGE.—Middle Lower California, Mexico, from San Rafael Valley, and southern part of the Laguna Hansen Mountains, south through San Pedro Martir Mountains to La Purisima in the interior, and along both coasts of the peninsula from San Simon River to Scammon Lagoon on the Pacific side, and from Calamahue Bay to Muleje on the Gulf coast. Vertical range from sea level at San Quentin to 7,000 feet altitude in the San Pedro Martir Mountains; zonal range from lower Sonoran up through upper Sonoran and into the transition zone.

†***Lepus californicus magdalenæ** Nelson.

1907. *Lepus californicus magdalenæ* NELSON, Proc. Biol. Soc. Washington, vol. 20, p. 81. July 22, 1907.

TYPE LOCALITY.—Magdalena Island, Lower California, Mexico.

RANGE.—Magdalena and Margarita Islands, near southern end of Lower California, Mexico. Vertical range from sea level to about 1,000 feet altitude; zonal range, lower Sonoran.

***Lepus californicus xanti** Thomas.

1898. *Lepus californicus xanti* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 1, p. 45. January, 1898.

TYPE LOCALITY.—Santa Anita, Lower California, Mexico.

RANGE.—Southern part of Peninsula of Lower California from Loreto on the Gulf coast, Scammon Lagoon on the Pacific, and Comondu in the interior, south to Cape St. Lucas. Vertical range from sea level up to about 4,000 feet in the Cape Region; zonal range mainly lower Sonoran and upper part of arid tropical.

***Lepus insularis** Bryant.

1891. *Lepus insularis* BRYANT, Proc. California Acad. Sci., ser. 2, vol. 3, p. 92. April 23, 1891.

1895. *Lepus edwardsi* ST. LOUP, Bull. mus. hist. nat., Paris, vol. 1, p. 5.

TYPE LOCALITY.—Espiritu Santo Island, Lower California, Mexico.

RANGE.—Espiritu Santo Island, Gulf of California. Vertical range from sea level up to about 1,000 feet; lower Sonoran and upper border of arid tropical zone.

Genus SYLVILAGUS Gray.[1]

1867. *Sylvilagus* GRAY Ann. and Mag. Nat. Hist., ser. 3, vol. 20, p. 221. Type, *Lepus sylvaticus* BACHMAN = *L. nuttalli mallurus* THOMAS.

[1] Revised by Nelson, North Amer. Fauna, No. 29, pp. 159-275, August 31, 1909.

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Subgenus SYLVILAGUS Gray.

1897. *Microlagus* TROUESSART, Catal. Mamm., pt. 3, p. 660. Type, *Lepus cinerascens* ALLEN.

***Sylvilagus floridanus floridanus** (Allen).

1890. *Lepus sylvaticus floridanus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 160. October 8, 1890.

1904. *Sylvilagus floridanus* LYON, Smiths. Misc. Coll., vol. 45, p. 336. June 15, 1904.

TYPE LOCALITY.—Sebastian River, Brevard County, Florida.

RANGE.—All of peninsular Florida (including coastal islands) south of Sebastian River and thence northward along the coast to St. Augustine on the east side, and to an unknown distance on the west side. Vertical range from sea level up to about 100 feet altitude; zonal range mainly lower Austral.

***Sylvilagus floridanus mallurus** (Thomas).

1885. *Lepus sylvaticus sylvaticus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 601. 1885. (Part.)

1898. *L[epus] n[uttalli] mallurus* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 2, p. 320. October, 1898.

1904. *Sylvilagus floridanus mallurus* LYON, Smiths. Misc. Coll., vol. 45, p. 336. June 15, 1904.

TYPE LOCALITY.—Raleigh, Wake County, North Carolina.

RANGE.—Mainly east of Allegheny Mountains from Long Island and the lower Hudson Valley in extreme southeastern New York south through New Jersey, Delaware, eastern Pennsylvania, eastern West Virginia, Maryland, Virginia, North and South Carolina, Georgia, except northwestern part, and west along Gulf coast to near Mobile Bay and Alabama; also northwestern central parts of Florida south to about Lake Julian, Polk County. Vertical range from near sea level in North Carolina up to about 6,000 feet on Roan Mountain; zonal range from lower austral up through transition zone, mainly upper austral.

†*Sylvilagus floridanus hitchensi Mearns.

1911. *Sylvilagus floridanus hitchensi* MEARNS, Proc. U. S. Nat. Mus., vol. 39, p. 227. January 9, 1911.

TYPE LOCALITY.—Smiths Island, Northampton County, Virginia.

***Sylvilagus floridanus mearnsii** (Allen).

1894. *Lepus sylvaticus mearnsii* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 6, p. 171. May 31, 1894.

1904. *Sylvilagus floridanus mearnsi* LYON, Smiths. Misc. Coll., vol. 45, p. 336. June 15, 1904.

TYPE LOCALITY.—Fort Snelling, Hennepin County, Minnesota.

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Sylvilagus floridanus mearnsii—Continued.

RANGE.—West of Allegheny Mountains from Lake Simcoe, Toronto, Canada, central New York, central Pennsylvania, western West Virginia, and eastern Kentucky, and eastern Tennessee, west through southern Michigan and Wisconsin to southeastern Minnesota, and south through Iowa to Trego County, Kansas, northern Missouri and Illinois, with all of Indiana and Ohio. Vertical range from about 500 feet in western New York to about 2,000 feet altitude in mountains of western Pennsylvania; zonal range mainly upper austral, extending into lower part of transition zone.

†***Sylvilagus floridanus similis** Nelson.

1907. *Sylvilagus floridanus similis* NELSON, Proc. Biol. Soc. Washington, vol. 20, p. 82. July 22, 1907.

TYPE LOCALITY.—Valentine, Nebraska.

RANGE.—Dry plains (mainly along wooded streams) of extreme western Minnesota, eastern North and South Dakota, all of Nebraska (except possibly the Missouri bottom lands), northern Kansas, northeastern Colorado, along tributaries of Platte River to base of mountains near Denver, and southeastern Wyoming. Vertical range, from about 1,500 feet in northeast Nebraska to over 5,000 feet west of Denver, Colorado; zonal range, mainly upper Sonoran.

***Sylvilagus floridanus alacer** (Bangs).

1896. *Lepus sylvaticus alacer* BANGS, Proc. Biol. Soc. Washington, vol. 10, p. 136. December 28, 1896.

1904. *Sylvilagus floridanus alacer* LYON, Smiths. Misc. Coll., vol. 45, p. 336. June 15, 1904.

TYPE LOCALITY.—Stilwell, Boston Mountains, Adair County, Oklahoma.

RANGE.—Gulf coast from Mobile Bay, Alabama, to Matagorda Bay, Texas, and thence north through most of Alabama to Tate, northwestern Georgia; all of Mississippi, Louisiana, and Arkansas; western Tennessee and Kentucky, extreme southern Illinois, southern Missouri, southeastern Kansas; all of Oklahoma except extreme western part, and eastern Texas to eastern border of Panhandle. Vertical range from near sea level in Louisiana up to about 2,000 feet altitude in Oklahoma; zonal range mainly lower austral.

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***Sylvilagus floridanus chapmani** (Allen.)

1899. *Lepus floridanus chapmani* ALLEN, Bull. Amer. Mus. Nat. Hist, vol. 12, p. 12. March 4, 1899.

†1899. *Lepus floridanus caniclunis* MILLER, Proc. Acad. Nat. Sci. Phila., p. 388. October 5, 1899. (Fort Clark, Kinney County, Texas.)

†1902. *Lepus simplicicanus* MILLER, Proc. Biol. Soc. Washington, vol. 15, p. 81. April 25, 1902. (Brownsville, Cameron County, Texas.)

1904. *Sylvilagus floridanus chapmani* LYON, Smiths. Misc. Coll., vol. 45, p. 336. June 15, 1904.

TYPE LOCALITY.—Corpus Christi, Nueces County, Texas.

RANGE.—Arid parts of middle and southern Texas from east of Corpus Christi to mouth of Pecos River and from near Abilene south across the Rio Grande into northeastern Mexico to central Tamaulipas, most of Nuevo Leon, and northeastern Coahuila. Vertical range from sea level near Corpus Christi up to about 1,000 feet altitude near Fort Clark, Texas. Zonal range mainly lower Sonoran.

†*Sylvilagus floridanus holzneri (Mearns.)

1896. *Lepus sylvaticus holzneri* MEARNS, Proc. U. S. Nat. Mus., vol. 18, p. 554. June 24, 1896.

†1896. [*Lepus sylvaticus*] subspecies *rigidus* MEARNS, Proc. U. S. Nat. Mus., vol. 18, p. 555. June 24, 1896. (Carrizalillo Mountains, near monument No. 31, Mexican boundary line, Grant County, New Mexico.)

1903. *Lepus* (*Sylvilagus*) *durangæ* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 19, p. 609. November 12, 1903. (Rancho Bailon, northwestern Durango, Mexico.)

1904. *Sylvilagus floridanus holzneri* LYON, Smiths. Misc. Coll., vol. 45, p. 336. June 15, 1904.

TYPE LOCALITY.—Douglas spruce zone, near summit of Huachuca Mountains, southern Arizona.

RANGE.—Higher mountain ranges of extreme southern Arizona and southwestern New Mexico and thence south through the Sierra Madre of western Mexico, in northeastern Sonora, Chihuahua, Durango, western Zacatecas, northwestern Jalisco, and northern Tepic. Vertical range from about 6,000 to 10,000 feet in southwestern Chihuahua; zonal range mainly transition and lower border of Canadian, ranging down into upper Sonoran in winter.

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†*Sylvilagus floridanus subcinctus (Miller.)

1899. *Lepus floridanus subcinctus* MILLER, Proc. Acad. Nat. Sci. Philadelphia, p. 386. October 5, 1899.

1904. *Syvilagus floridanus subcinctus* LYON, Smiths. Misc. Coll., vol. 45, p. 336. June 15, 1904.

TYPE LOCALITY.—Hacienda El Molino, near Negrete, State of Michoacan, Mexico.

RANGE.—Mainly arid plains of southwestern part of Mexican table-land and from western Guanajuato to northern Michoacan and southeastern Jalisco. Vertical range from about 3,500 to 6,000 feet altitude in Jalisco; zonal range mainly upper and lower Sonoran, but extends down into upper border of arid tropical zone.

†*Sylvilagus floridanus restrictus Nelson.

1907. *Sylvilagus floridanus restrictus* NELSON, Proc. Biol. Soc. Washington, vol. 20, p. 82. July 22, 1907.

TYPE LOCALITY.—Zapotlan, Jalisco, Mexico.

RANGE.—Mainly oak and pine forested slopes of Sierra Madre in Michoacan, southern and western Jalisco, and southeastern part of Territory of Tepic, Mexico. Vertical range from about 4,000 to 9,500 feet in Michoacan; zonal range mainly upper Sonoran and transition, but ranging down on south slope of Sierra Madre through lower Sonoran to border of arid tropical zone.

†*Sylvilagus floridanus orizabæ (Merriam).

1893. *Lepus orizabæ* MERRIAM, Proc. Biol. Soc. Washington, vol. 8, p. 143. December 29, 1893.

1903. *Lepus floridanus persultator* ELLIOT, Field Columb. Mus., publ. 71, zool. ser., vol. 3, p. 147. February, 1903. (Puebla, Puebla, Mexico.)

1909. *Sylvilagus floridanus orizabæ* NELSON, North Amer. Fauna, No. 29, p. 183. August 31, 1909.

TYPE LOCALITY.—Mount Orizaba, State of Puebla, Mexico. Altitude, about 9,500 feet.

RANGE.—Most of the high mountains and bordering plains on southeastern part of Mexican Table-land, from Mount Orizaba and the Cofre de Perote on the western border of central Vera Cruz through northern half of Puebla, all of Talxacala, most of the State of Mexico, the Federal District, Hidalgo, Guanajuato, San Luis Potosi, and southern Coahuila. Vertical range from about 7,000 to over 14,000 feet altitude in eastern Puebla; zonal range from upper Sonoran through transition to the Arctic-Alpin division of the boreal zone (mainly transition).

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†*Sylvilagus floridanus connectens (Nelson).

1904. *Lepus floridanus connectens* NELSON, Proc. Biol. Soc. Washington, vol. 17, p. 105. May 18, 1904.

1909. *Sylvilagus floridanus connectens* NELSON, North Amer. Fauna, No. 29, p. 185. August 31, 1909.

TYPE LOCALITY.—Chichicaxtle, central Vera Cruz, Mexico.

RANGE.—Coastal plain and eastern slope of adjacent mountains of eastern Mexico from Alta Mira, in southern Tamaulipas, through eastern San Luis Potosi to Pinal de Amoles, in northeastern Queretaro, south to Papaloapam River in Vera Cruz, and through eastern Puebla to Mount Zempoaltepec in eastern Oaxaca. Vertical range from sea level near Vera Cruz up to about 9,000 feet on Mount Zempoaltepec; zonal range mainly arid and humid tropical, extending up through upper Sonoran zone.

*Sylvilagus floridanus russatus (Allen).

1904. *Lepus (Sylvilagus) russatus* Allen, Bull. Amer. Mus. Nat. His., vol. 20, p. 31. February 29, 1904.

1909. *Sylvilagus floridanus russatus* NELSON, North Amer. Fauna, No. 29, p. 186. August 31, 1909.

TYPE LOCALITY.—Pasa Nueva, southern Vera Cruz, Mexico.

RANGE.—Coast lowlands of southern Vera Cruz and thence east into adjacent part of Tabasco and south to lower slopes of the Cordillera. Vertical range from sea level to about 3,000 feet in southern Vera Cruz; zonal range humid and semihumid tropical.

*Sylvilagus floridanus aztecus (Allen).

1890. *Lepus sylvaticus aztecus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 188. December 10, 1890.

1904. *Sylvilagus floridanus aztecus* LYON, Smiths. Misc. Coll., vol. 45, p. 336. June 15, 1904.

TYPE LOCALITY.—City of Tehuantepec, State of Oaxaca, Mexico.

RANGE.—Coastal plain and adjacent foothills of southern Oaxaca and southeasterly along coast of Chiapas nearly or quite to border of Guatemala, and also middle northern Costa Rica. Vertical range from sea level to about 2,000 feet altitude in southern Oaxaca; zonal range arid and semihumid tropical zones.

†*Sylvilagus floridanus chiapensis (Nelson).

1904. *Lepus floridanus chiapensis* NELSON, Proc. Biol. Soc. Washington, vol. 17, p. 106. May 18, 1904.

1909. *Sylvilagus floridanus chiapensis* NELSON, North Amer. Fauna, No. 29, p. 189. August 31, 1909.

TYPE LOCALITY.—San Cristobal, Chiapas, Mexico.

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Sylvilagus floridanus chiapensis—Continued.

RANGE.—Interior of Chiapas, mainly in the highlands, the adjacent highlands of Guatemala and southerly to middle northern Nicaragua. Vertical range from about 2,000 to over 10,000 feet altitude in Chiapas and Guatemala; zonal range mainly upper Sonoran and transition, but ranges down to upper border of tropical zone.

†***Sylvilagus floridanus yucatanicus** (Miller).

1899. *Lepus floridanus yucatanicus* MILLER, Proc. Acad. Nat. Sci. Philadelphia, p. 384. October 5, 1899.

1904. *Sylvilagus floridanus yucatanicus* LYON, Smiths. Misc. Coll., vol. 45, p. 336. June 15, 1904.

TYPE LOCALITY.—Merida, Yucatan.

RANGE.—Coastal plain of Yucatan, Campeche, and Tabasco. Vertical range from sea level to about 500 feet in Campeche. Zonal range arid and semiarid tropical zones.

†***Sylvilagus cognatus** Nelson.

1907. *Sylvilagus cognatus* NELSON, Proc. Biol. Soc. Washington, vol. 20, p. 82. July 22, 1907.

TYPE LOCALITY.—Near summit of the Manzano Mountains, Valencia County, New Mexico.

RANGE.—High mountain summits and adjacent slopes of central-eastern New Mexico. Vertical range from about 6,500 to 10,200 feet altitude on Manzano Mountains; zonal range mainly transition, and lower part of Canadian zone.

†***Sylvilagus robustus** (Bailey).

1905. *Lepus pinetis robustus* BAILEY, North Amer. Fauna, No. 25, p. 159. October 24, 1905.

1909. *Sylvilagus robustus* NELSON, North Amer. Fauna, No. 29, p. 194. August 31, 1909.

TYPE LOCALITY.—Six thousand feet altitude in Davis Mountains, Jeff Davis County, Texas.

RANGE.—Davis, Chinati, and Chisos Mountains in southwestern Texas. Vertical range mainly above 6,000 feet in Davis Mountains; zonal range mainly transition.

***Sylvilagus transitionalis** (Bangs).

1895. *Lepus sylvaticus transitionalis* BANGS, Proc. Boston Soc. Nat. Hist., vol. 26, p. 405. January 31, 1895.

1909. *Sylvilagus transitionalis* NELSON, North Amer. Fauna, No. 29, p. 195. August 31, 1909.

TYPE LOCALITY.—Liberty Hill, New London County, Connecticut.

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Sylvilagus transitionalis—Continued.

RANGE.—New England States north to Rutland, Vermont, southern New Hampshire, extreme southwestern Maine, and southwest through eastern New York (including southern end of Lake George and Long Island), New Jersey, eastern Pennsylvania, and Maryland to Alexandria, Virginia; also along the Alleghenies through West Virginia to Roan Mountain, North Carolina, and Brasstown Bald Mountain in extreme northern Georgia. Vertical range from near sea level in Virginia to 6,000 feet on Roan Mountain, North Carolina; zonal range mainly transition and thence down into upper part of upper austral zone.

***Sylvilagus nuttallii nuttallii** (Bachman).

1837. *Lepus nuttallii* BACHMAN, Journ. Acad. Nat. Sci. Philadelphia, vol. 7, p. 345.

1885. *Lepus sylvaticus nuttalli* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 601. 1885. (Part.)

1904. *Sylvilagus nuttallii* LYON, Smiths. Misc. Coll., vol. 45, p. 336. June 15, 1904.

TYPE LOCALITY.—Vicinity of the junction of the Snake and Columbia Rivers, Washington.

RANGE.—Plains and lower mountain slopes of Columbia River basin in eastern Washington and Oregon; also northeastern California, northwestern Nevada, and western Idaho. Vertical range from about 100 feet on Columbia River to about 3,000 feet altitude near Prineville, Oregon; zonal range mainly upper Sonoran and lower part of transition zone.

***Sylvilagus nuttallii grangeri** (Allen).

1895. *Lepus sylvaticus grangeri* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 264. August 21, 1895.

1903. *Lepus l[aticinctus] perplicatus* ELLIOT, Field Columb. Mus., publ. 87, zool. ser., vol. 3, p. 255. December, 1903. (Hannopec Canyon, Panamint Mountains, Inyo County, California.)

1909. *Sylvilagus nuttalli grangeri* NELSON, North Amer. Fauna, No. 29, p. 204. August 31, 1909.

TYPE LOCALITY.—Hill City, Black Hills, Custer County, South Dakota.

RANGE.—Western South Dakota, most of Montana and Wyoming; most of the sagebrush plains of Idaho (except extreme western and northwestern parts), Nevada (except northwestern corner and low valleys in the south); mountains of middle eastern California from near Mono Lake to Panamint Range; most of Utah, and northwestern Colorado; extends north of the United States into southern Alberta and Saskatchewan, Canada. Zonal range mainly transition and upper half of upper Sonoran zone.

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***Sylvilagus nuttallii pinetis** (Allen).

1894. *Lepus sylvaticus pinetis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 6, p. 348. December 7, 1894.

1909. *Sylvilagus nuttalli pinetis* NELSON, North Amer. Fauna, No. 29, p. 207. August 31, 1909.

TYPE LOCALITY.—White Mountains, Apache County, Arizona.

RANGE.—Pine forests of mountains from central Arizona and middle-western New Mexico, north through Colorado except northwestern corner. Vertical range in Colorado and New Mexico from about 7,500 to over 10,000 feet; zonal range mainly transition and lower edge of Canadian, moving down in winter to border of upper Sonoran zone.

***Sylvilagus audubonii audubonii** (Baird).

1857. *Lepus audubonii* BAIRD, Mamm. N. Amer., p. 608.

1885. *Lepus sylvaticus auduboni* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 601. 1885.

1909. *Sylvilagus auduboni* NELSON, North Amer. Fauna, No. 29, p. 214. August 31, 1909.

TYPE LOCALITY.—San Francisco, California.

RANGE.—Interior of north-central California from Red Bluff in Sacramento Valley south in suitable localities in valley and foothills to north end of San Joaquin Valley (Chinese Camp on the east and Los Banos on the west), and reaching the coast along the east and south sides of San Francisco Bay, and thence south through the adjacent Santa Clara Valley. Vertical range from sea level at San Francisco Bay up to about 4,000 feet on west slope of Sierra Nevada; zonal range, mainly semiarid upper Sonoran.

†*Sylvilagus audubonii vallicola Nelson.

1907. *Sylvilagus auduboni vallicola* NELSON, Proc. Biol. Soc. Washington, vol. 20, p. 82. July 22, 1907.

TYPE LOCALITY.—San Emigdio ranch, Kern County, California.

RANGE.—Hot, arid parts of central-interior California in Salinas, Upper Cuyama, and San Joaquin Valleys; north to beyond Raymond and south to Walker and Tejon Passes. Not found west of the outer Coast Range. Vertical range from about 250 feet in bottom of San Joaquin Valley to 4,500 feet altitude on western slope of Sierra Nevada; zonal range, mainly lower Sonoran, but extending into upper Sonoran.

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†*Sylvilagus audubonii sanctidiegi (Miller).

1899. *Lepus floridanus sanctidiegi* MILLER, Proc. Acad. Nat. Sci. Philadelphia, p. 389. October 5, 1899.

1909. *Sylvilagus auduboni sanctidiegi* NELSON, North Amer. Fauna, No. 29, p. 218. August 31, 1909.

TYPE LOCALITY.—Mexican Boundary Monument No. 258, shore of Pacific Ocean, San Diego County, California.

RANGE.—Southern California west of the mountains from the southern half of Ventura County to the Mexican border, and Lower California from the coast to western base of Laguna Hansen and San Pedro Martir Mountains and from the northern border south to El Rosario River. Vertical range from sea level at San Diego up to over 4,000 feet altitude on mountains to the east; zonal range, mainly upper Sonoran.

*Sylvilagus audubonii confinis (Allen).

1898. *Lepus arizonæ confinis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 146. April 12, 1898.

1909. *Sylvilagus auduboni confinis* NELSON, North Amer. Fauna, No. 29, p. 220. August 31, 1909.

TYPE LOCALITY.—Playa Maria, Lower California, Mexico.

RANGE.—Lower California, Mexico, from Rosario River on the west coast and Santa Rosalia on the east side south to Cape St. Lucas. Vertical range from sea level on west coast up to about 3,500 feet in interior of peninsula; zonal range, mainly lower Sonoran, reaching the upper border of the arid tropical zone.

†*Sylvilagus audubonii arizonæ (Allen).

1877. [*Lepus sylvaticus*] var. *arizonæ* ALLEN, Monogr. North Amer. Rodentia, p. 332. August, 1877.

1885. *Lepus sylvaticus arizonæ* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 601. 1885.

†1896. *Lepus arizonæ major* MEARNS, Proc. U. S. Nat. Mus., vol. 18, p. 557. June 24, 1896. (Calabasas, Pima County, Arizona.)

1903. *Lepus laticinctus* ELLIOT, Field Columb. Mus., publ. 87, zool. ser., vol. 3, p. 254. December, 1903. (Ore Grande, Mohave Desert, Kern County, California.)

1903. *Lepus l[aticinctus] rufipes* ELLIOT, Field Columb. Mus., publ. 87, zool. ser., vol. 3, p. 254. December, 1903. (Furnace Creek, Death Valley, Inyo County, California.)

1909. *Sylvilagus auduboni arizonæ* NELSON, North Amer. Fauna, No. 29, p. 222. August 31, 1909.

TYPE LOCALITY.—Beals Springs, 50 miles west of Fort Whipple, Yavapai County, Arizona.

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Sylvilagus audubonii arizonæ—Continued.

RANGE.—Deserts of extreme southern Nevada, California (east of the Sierra Nevada and southern Coast Range), from Owen and Death Valleys south across the Mohave and Colorado Deserts into northeastern Lower California; nearly all of Arizona below 6,000 feet (except northeastern part) from westerly slopes of San Francisco and White Mountains, south into northern Sonora, Mexico. Vertical range from below sea level in Death Valley up to about 7,000 feet in mountains of western Arizona; zonal range, mainly lower Sonoran, but extending through upper Sonoran.

†***Sylvilagus audubonii goldmani** (Nelson).

1904. *Lepus arizonæ goldmani* NELSON, Proc. Biol. Soc. Washington, vol. 17, p. 107. May 18, 1904.

1909. *Sylvilagus audubonii goldmani* NELSON, North Amer. Fauna, No. 29, p. 225, August 31, 1909.

TYPE LOCALITY.—Culiacan, Sinaloa, Mexico.

RANGE.—Coastal plain and adjacent foothills from near Ortiz, southern Sonora, south to Culiacan, central Sinaloa, and Chacala in extreme western Durango, Mexico. Vertical range from near sea level on west coast of Sinaloa up to about 2,500 feet; zonal range, lower Sonoran and upper part of arid tropical zone.

†***Sylvilagus audubonii minor** (Mearns).

1896. *Lepus arizonæ minor* MEARNS, Proc. U. S. Nat. Mus., vol. 18, p. 557. June 24, 1896.

1907. *S[ylvilagus] a[udubonii] minor* NELSON, Proc. Biol. Soc. Washington, vol. 20, p. 83. July 22, 1907.

TYPE LOCALITY.—El Paso, El Paso County, Texas.

RANGE.—Extreme western Texas (mainly west of Guadalupe and Davis Mountains) and Rio Grande Valley about mouth of Pecos; also plains of extreme southeastern corner of Arizona and southwestern New Mexico, and thence south through plains and foothills of Chihuahua to northern Durango, Mexico, east of the Sierra Madre. Vertical range from about 3,500 to 6,000 feet altitude in Chihuahua; zonal range mainly lower Sonoran, extending up into the upper Sonoran zone.

†***Sylvilagus audubonii cedrophilus** Nelson.

1907. *Sylvilagus audubonii cedrophilus* NELSON, Proc. Biol. Soc. Washington, vol. 20, p. 83. July 22, 1907.

TYPE LOCALITY.—Cactus Flat, 20 miles north of Cliff, Grant County, New Mexico.

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Sylvilagus audubonii cedrophilus—Continued.

RANGE.—Mainly the juniper and pinyon pine belt from Alpine, in the Davis Mountains of Texas, north through mountains of southern half of New Mexico and along the Mogollon Range to east side of San Francisco Mountain of east-central Arizona. Vertical range from about 5,000 to 8,000 feet in western New Mexico; zonal range mainly upper Sonoran.

†***Sylvilagus audubonii warreni** Nelson.

1907. *Sylvilagus auduboni warreni* NELSON, Proc. Biol. Soc. Washington, vol. 20, p. 83. July 22, 1907.

TYPE LOCALITY.—Coventry, Montrose County, Colorado.

RANGE.—Southwestern Colorado, southeastern Utah, northwestern New Mexico, northeastern Arizona, including lower half of valley of the Little Colorado River, to east base of San Francisco Mountain, and to Henry Mountains, southeastern Utah. Vertical range from about 5,000 to 8,500 feet in northwestern New Mexico; zonal range mainly upper Sonoran, extending into transition and lower Sonoran zones.

†***Sylvilagus audubonii baileyi** (Merriam).

1897. *Lepus baileyi* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 148. June 9, 1897.

1909. *Sylvilagus auduboni baileyi* NELSON, North Amer. Fauna, No. 29, p. 232. August 31, 1909.

TYPE LOCALITY.—Spring Creek, east side of Bighorn Basin, Bighorn County, Wyoming.

RANGE.—Plains and valleys of eastern Montana, most of Wyoming, northeastern Utah, northwestern and eastern Colorado (east of the mountains), western parts of North and South Dakota, Nebraska, and as far east as Trego County, Kansas. Vertical range from about 3,000 feet in Kansas to 7,000 feet in Colorado; zonal range mainly arid upper Sonoran, but ranging into lower part of transition zone.

†***Sylvilagus audubonii neomexicanus** Nelson.

1907. *Sylvilagus auduboni neomexicanus* NELSON, Proc. Biol. Soc. Washington, vol. 20, p. 83. July 22, 1907.

TYPE LOCALITY.—Fort Sumner, Guadalupe County, New Mexico.

RANGE.—Pecos Valley from near Fort Stockton, Texas, north to about Fort Sumner, New Mexico, and thence east to Abilene and Wichita Falls, Texas, and north through eastern New Mexico, western Texas, and western Oklahoma to extreme south-central Kansas. Vertical range from about 2,500 feet in western Texas to 5,000 feet in eastern New Mexico; zonal range lower Sonoran and lower part of upper Sonoran zone.

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***Sylvilagus audubonii parvulus** (Allen).

1904. *Lepus (Sylvilagus) parvulus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 20, p. 34. February 29, 1904.

1909. *Sylvilagus audubonii parvulus* NELSON, North Amer. Fauna, No. 29, p. 236. August 31, 1909.

TYPE LOCALITY.—Apam, Hidalgo, Mexico.

RANGE.—Eastern and southeastern part of Mexican table-land from Puebla north to Rio Grande Valley of Texas (from Rio Grande City to mouth of Pecos River). Vertical range from below 500 feet on the Rio Grande to over 8,000 feet altitude on southern end of table-land in Mexico; zonal range upper and lower Sonoran.

***Sylvilagus cunicularius cunicularius** (Waterhouse).

1848. *Lepus cunicularius* WATERHOUSE, Nat. Hist. Mammalia, vol. 2, p. 132.

1890. *Lepus veræcrucis* THOMAS, Proc. Zool. Soc. London, p. 74. (Las Vigas, State of Vera Cruz, Mexico.)

1907. *Lepus cunicularius* OSGOOD, Proc. Biol. Soc. Washington, vol. 20, p. 51. April 18, 1907.

1909. *Sylvilagus cunicularius*, NELSON, North Amer. Fauna, No. 29, p. 239. August 31, 1909.

TYPE LOCALITY.—Sacualpan (probably in State of Mexico).

RANGE.—Mountains about extreme southern end of Mexican table-land and bordering slopes and valleys on both sides from Cofre de Perote and Mount Orizaba in central-western Vera Cruz, and Mount Zempoaltepec, eastern Oaxaca, west through southern Hidalgo, Puebla, Tlaxcala, Mexico, northern Michoacan, Morelos, northern Guerrero, and northern Oaxaca. Vertical distribution from about 2,000 feet in Guerrero up to over 11,000 feet on Mount Orizaba and on the mountains about the Valley of Mexico; zonal distribution from upper part of arid tropical up through Sonoran and transition into Canadian zone.

†*Sylvilagus cunicularius pacificus (Nelson).

1904. *Lepus veræcrucis pacificus* NELSON, Proc. Biol. Soc. Washington, vol. 17, p. 104. May 18, 1904.

1909. *Sylvilagus cunicularius pacificus* NELSON, North Amer. Fauna, No. 29, p. 242. August 31, 1909.

TYPE LOCALITY.—Acapulco, Guerrero, Mexico.

RANGE.—Coastal plain and adjacent foothills of southwestern Mexico from extreme southern Michoacan through Guerrero to Pluma, Oaxaca. Vertical range from sea level in Guerrero to about 2,500 feet in the foothills; zonal range, arid tropical.

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***Sylvilagus cunicularius insolitus** (Allen).

1890. *Lepus insolitus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 189. December 10, 1890.

1909. *Sylvilagus cunicularius insolitus* NELSON, North Amer. Fauna, No. 29, p. 243. August 31, 1909.

TYPE LOCALITY.—Plains of Colima, State of Jalisco, Mexico.

RANGE.—Coastal plains of western Mexico from Michoacan north through Colima and Territory of Tepic to Mazatlan, Sinaloa. Vertical range from sea level in Colima to about 3,500 feet on west base of Volcano of Colima; zonal range, arid tropical.

†*Sylvilagus graysoni (Allen).

1877. *Lepus graysoni* ALLEN, Monogr. N. Amer. Rodentia, p. 347. August, 1877.

1885. *Lepus graysoni* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 601. 1885.

1904. *Sylvilagus graysoni* LYON, Smiths. Misc. Coll., vol. 45, p. 336. June 15, 1904.

TYPE LOCALITY.—Tres Marias Islands, State of Jalisco, Mexico; probably Maria Madre Island. (See Nelson, North Amer. Fauna, No. 14, p. 16. April 29, 1899.)

RANGE.—Tres Marias Islands, western Mexico. Vertical range from sea level to about 200 feet; zonal range, arid tropical.

***Sylvilagus bachmani bachmani** (Waterhouse).

1838. *Lepus bachmani* WATERHOUSE, Proc. Zool. Soc. London, vol. 6, p. 103.

1885. *Lepus trowbridgei* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 601. 1885.

1904. *Sylvilagus bachmani* LYON, Smiths. Misc. Coll., vol. 45, p. 336. June 15, 1904.

TYPE LOCALITY.—California.

RANGE.—California, from Monterey to Santa Monica on west side of the Coast Range and western foothills of Sierra Nevada from Tulare County to Shasta County. Vertical range along coast from sea level up to over 3,000 feet altitude in adjacent mountains; zonal range semihumid upper Sonoran into semihumid transition zone (mainly upper Sonoran).

†*Sylvilagus bachmani ubericolor (Miller).

1899. *Lepus bachmani ubericolor* MILLER, Proc. Acad. Nat. Sci., Philadelphia, p. 383. October 5, 1899.

1904. *Sylvilagus bachmani ubericolor* LYON, Smiths. Misc. Coll., vol. 45, p. 337. June 15, 1904.

TYPE LOCALITY.—Beaverton, Washington County, Oregon.

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Sylvilagus bachmani ubericolor—Continued.

RANGE.—Mainly humid coast belt from near Monterey Bay, California, north to near Columbia River (Beaverton), Oregon, and inland in northern California to head of Sacramento Valley at Tehama and Stillwater. Vertical range from sea level up to 1,000 feet or more in northern California; zonal distribution mainly humid transition.

***Sylvilagus bachmani cinerascens** (Allen).

1890. *Lepus cinerascens* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 159. October 8, 1890.

1907. *Sylvilagus bachmani cinerascens* NELSON, Proc. Biol. Soc. Washington, vol. 20, p. 84, July 22, 1907.

TYPE LOCALITY.—San Fernando, Los Angeles County, California.

RANGE.—Arid brush-grown slopes of southern and western sides of San Joaquin and neighboring valleys in California, as far north as Jolon and Jamesburg and thence south throughout southern California west of the summit of the mountains (reaching the coast south of Santa Monica) and along the coast of Lower California from northern border south to Ensenada and east to summit of Laguna Hansen Mountains. Vertical range, from sea level up to 6,000 feet altitude in northern Lower California; zonal range, through upper Sonoran zone up into transition (mainly upper Sonoran).

†***Sylvilagus bachmani exiguus** Nelson.

1907. *Sylvilagus bachmani exiguus* NELSON, Proc. Biol. Soc. Washington, vol. 20, p. 84. July 22, 1907.

TYPE LOCALITY.—Yubay, central Lower California, Mexico.

RANGE.—Arid middle part of peninsula of Lower California from Alamo Plain and Trinidad Valley south to Comondu. Vertical range, from sea level at San Quentin to about 7,000 feet on San Pedro Martir Mountains; zonal range, mainly upper and lower Sonoran, extending into transition on mountains.

***Sylvilagus bachmani peninsularis** (Allen).

1898. *Lepus peninsularis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 144. April 12, 1898.

1909. *Sylvilagus bachmani peninsularis* NELSON, North Amer. Fauna, No. 29, p. 255. August 31, 1909.

TYPE LOCALITY.—Santa Anita, Lower California, Mexico.

RANGE.—Southern part of Lower California on both coasts, and interior from about Comondu and Loreto south to Cape St. Lucas. Vertical range from sea level up to about 2,000 feet in region near Comondu; zonal range, lower Sonoran and border of arid tropical zone.

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Sylvilagus bachmani cerrosensis (Allen).

1898. *Lepus cerrosensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 10, p. 145. April 12, 1898.

1909. *Sylvilagus bachmani cerrosensis* NELSON, North Amer. Fauna, No. 29, p. 255. August 31, 1909.

TYPE LOCALITY.—Cerros Island, Lower California, Mexico.

RANGE.—Cerros Island, Lower California. Vertical range from sea level up to an undetermined altitude on the low mountains of the island; zonal range, upper Sonoran.

†***Sylvilagus mansuetus** Nelson.

1907. *Sylvilagus mansuetus* NELSON, Proc. Biol. Soc. Washington, vol. 20, p. 83. July 22, 1907.

TYPE LOCALITY.—San José Island, Gulf of California.

RANGE.—San José Island, Gulf of California. Vertical range from sea level up to an undetermined altitude on low mountains; zonal range, lower Sonoran and upper border of arid tropical zone.

Subgenus TAPETI Gray.

1867. *Tapeti* GRAY, Ann. and Mag. Nat. Hist., ser. 3, vol. 20, p. 224. September, 1867. Type, *Lepus brasiliensis* LINNÆUS.

1897. *Limnolagus* MEARNS, Science, n. s., vol. 5, p. 393. March 5, 1897. Type, *Lepus aquaticus* BACHMAN.

†***Sylvilagus gabbi gabbi** (Allen).

1877. *Lepus brasiliensis* var. *gabbi* ALLEN, Monogr. N. Amer. Rodentia, p. 349. August, 1877.

1885. *Lepus brasiliensis gabbi* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 602. 1885.

1904. *Sylvilagus gabbi* LYON, Smiths. Misc. Coll., vol. 45, p. 336. June 15, 1904.

1908. *Lepus gabbi tumacus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 24, p. 649. October 13, 1908 (Tumà, Nicaragua).

TYPE LOCALITY.—Talamanca, Costa Rica.

RANGE.—Eastern Honduras, Nicaragua, Costa Rica, and Panama. Vertical range from sea level up to about 5,000 feet in Costa Rica; zonal range, humid tropical.

Sylvilagus gabbi incitatus (Bangs).

1901. *Lepus* (*Tapeti*) *incitatus* BANGS, Amer. Nat., vol. 35, p. 633. August 22, 1901.

1909. *Sylvilagus tapeti incitatus* NELSON, North Amer. Fauna, No. 29, p. 261. August 31, 1909.

TYPE LOCALITY.—San Miguel Island, Bay of Panama.

RANGE.—San Miguel Island, Bay of Panama. Vertical range near sea level; zonal distribution, humid tropical.

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†*Sylvilagus gabbi truei (Allen).

1890. *Lepus truei* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 3, p. 192. December 10, 1890.

1909. *Sylvilagus gabbi truei* NELSON, North Amer. Fauna, No. 29, p. 262. August 31, 1909.

TYPE LOCALITY.—Mirador, State of Vera Cruz, Mexico.

RANGE.—Heavily forested mountain slopes and adjacent coastal plain of eastern Mexico from eastern Puebla, Vera Cruz, northern Oaxaca, Tabasco, Campeche, Yucatan, interior and Pacific coast of Chiapas, and both coasts of Guatemala. Vertical range from a little above sea level to about 5,000 feet in Vera Cruz, Mexico; zonal range, humid tropical.

†*Sylvilagus insonus (Nelson).

1904. *Lepus insonus* NELSON, Proc. Biol. Soc. Washington, vol. 17, p. 103. May 18, 1904.

1909. *Sylvilagus insonus* NELSON, North Amer. Fauna, No. 29, p. 264. August 31, 1909.

TYPE LOCALITY.—Omilteme, Guerrero, Mexico.

RANGE.—Heavily forested parts of Sierra Madre del Sur, Guerrero. Vertical range from about 7,000 to 10,000 feet; zonal range, upper Sonoran and transition zones.

*Sylvilagus palustris palustris (Bachman).

1837. *Lepus palustris* BACHMAN, Journ. Acad. nat. Sci. Philadelphia, vol. 7, p. 194.

1885. *Lepus palustris* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 601. 1885. (Part.)

1909. *Sylvilagus palustris* NELSON, North Amer. Fauna, No. 29, p. 266. August 31, 1909.

TYPE LOCALITY.—Eastern South Carolina.

RANGE.—Lowlands along rivers and coast of southeastern States from Dismal Swamp, Virginia, south to extreme northern Florida, and west through most of southern Georgia and the Gulf coast of northwestern Florida to east side of Mobile Bay, Alabama. Vertical range from sea level to an undetermined altitude (probably less than 500 feet); zonal range, lower austral.

*Sylvilagus palustris paludicola (Miller and Bangs).

1894. *Lepus paludicola* MILLER and BANGS, Proc. Biol. Soc. Washington, vol. 9, p. 105. June 9, 1894.

1909. *Sylvilagus palustris paludicola* NELSON, North Amer. Fauna, No. 29, p. 269. August 31, 1909.

TYPE LOCALITY.—Fort Island, near Crystal River, Citrus County, Florida.

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Sylvilagus palustris paludicola—Continued.

RANGE.—Peninsular Florida and adjacent coast islands, north along the east coast at least to San Mateo, and on the west side for an unknown distance northwest of the type locality, but probably some distance beyond the Suwanee River. Vertical range from sea level up to about 100 feet altitude; zonal range, extreme lower austral and upper border of humid tropical zone.

***Sylvilagus aquaticus aquaticus (Bachman).**

1837. *Lepus aquaticus* BACHMAN, Journ. Acad. Nat. Sci. Philadelphia, vol. 7, p. 319.

1885. *Lepus aquaticus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 601. 1885. (Part.)

1895. *Lepus aquaticus attwateri* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 327. November 8, 1895. (Medina River, 18 miles south of San Antonio, Bexar County, Texas.)

1899. *Lepus telmalemonus* ELLIOTT, Field Columb. Mus., publ. 38, zool. ser., vol. 1, p. 285. May 24, 1899. (Washita River, near Dougherty, Murray County, Oklahoma.)

1909. *Sylvilagus aquaticus* NELSON, North Amer. Fauna, No. 29, p. 270. August 31, 1909.

TYPE LOCALITY.—Western Alabama.

RANGE.—River bottoms and swampy woods from Lumpkin, southwestern Georgia, west to Medina River near San Antonio, middle Texas, and north at least to Hartshorne, Oklahoma, and to wooded bottoms of Ohio and Mississippi rivers in southern Illinois; but separated from Gulf coast by a narrow belt occupied by *littoralis*. Vertical range from a little above sea level to about 800 feet in Alabama, entirely in the lower austral zone.

†*Sylvilagus aquaticus littoralis Nelson.

1909. *Sylvilagus aquaticus littoralis* NELSON, North Amer. Fauna, No. 29, p. 273. August 31, 1909.

TYPE LOCALITY.—Houma, Terrebonne Parish, Louisiana.

RANGE.—A narrow belt of swamps and marshes along the Gulf coast, nearly if not entirely within upper limits of tidewater, from Bay St. Louis, Mississippi, west through Louisiana to Matagorda Bay, Texas. Vertical range below 50 feet altitude, wholly within the lower austral zone.

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Genus BRACHYLAGUS Miller.

1902. *Brachylagus* MILLER, Proc. Biol. Soc. Washington, vol. 13, p. 157. June 13, 1902. Type, *Lepus idahoensis* MERRIAM.

†*Brachylagus idahoensis (Merriam).

1891. *Lepus idahoensis* MERRIAM, North Amer. Fauna, No. 5, p. 76. July 30, 1891.

1904. *Brachylagus idahoensis* LYON, Smiths. Misc. Coll., vol. 45, p. 337. June 15, 1904.

TYPE LOCALITY.—Pahsimeroi Valley, Custer County, Idaho.

RANGE.—Sagebrush plains of southern Idaho, southeastern Oregon, extreme northeastern California, and northern and central Nevada. Vertical range from about 4,500 to over 7,000 feet altitude in Nevada; zonal range, mainly upper Sonoran, but extending into the lower border of transition zone.

Genus ROMEROLAGUS Merriam.

1896. *Romerolagus* MERRIAM, Proc. Biol. Soc. Washington, vol. 10, p. 173. December 29, 1896. Type, *Romerolagus nelsoni* MERRIAM = *Lepus diazi* DIAZ.

*Romerolagus diazi (Diaz).

1893. *Lepus diazi* DIAZ, Catal. Com. Geográf.-Expl. Repub. Mex. Expos. Internac. Columb. Chicago, pl. 42. March, 1893.

†1896. *Romerolagus nelsoni* MERRIAM, Proc. Biol. Soc. Washington, vol. 10, p. 173. December 29, 1896. (West slope of Mount Popocatepetl, State of Mexico, Mexico. Altitude, 11,000 feet.)

1911. *Romerolagus diazi* MILLER, Proc. Biol. Soc. Washington, vol. 24, p. 228. October 31, 1911.

TYPE LOCALITY.—Eastern slope of Mount Iztaccihuatl, Puebla, Mexico.

RANGE.—Middle slopes of Popocatepetl and Iztaccihuatl, mainly on north and west sides, fronting Valley of Mexico. Vertical range from about 10,000 to 12,000 feet; zonal range, Canadian.

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Order EDENTATA.

Family BRADYPODIDÆ.

Genus CHOLŒPUS Illiger.

1811. *Cholœpus* Illiger, Prodr. Syst. Mamm. et Avium, p. 108. Type, *Bradypus didactylus* Linnæus.

***Cholœpus hoffmanni** Peters.

1858. *Cholœpus hoffmanni* Peters, Monatsber. k. preuss. Akad. Wissensch. Berlin, p. 128.

1885. *Cholopus hoffmani* True, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 588. 1885.

Type Locality.—Costa Rica.

Genus BRADYPUS Linnæus.

1758. *Bradypus* Linnæus, Syst. nat., ed. 10, vol. 1, p. 34. Type, *Bradypus tridactylus* Linnæus.

***Bradypus castaneiceps** (Gray).

1871. *Arctopithecus castaneiceps* Gray, Proc. Zool. Soc. London, p. 444.

1882. *Bradypus castaneiceps* Alston, Biol. Centr.-Amer., mammals, p. 184.

1885. *Bradypus castaneiceps* True, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 588. 1885.

Type Locality.—Chontales, Nicaragua.

***Bradypus infuscatus** Wagler.

1831. *Bradypus infuscatus* Wagler, Isis, p. 611.

1885. *Bradypus infuscatus* True, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 588. 1885.

Type Locality.—Western Brazil. (Ranges north to Costa Rica.)

Family MYRMECOPHAGIDÆ.

Genus CYCLOPES Gray.

1821. *Cyclopes* Gray, London Med. Repos., vol. 15, p. 305. Type, *Myrmecophaga didactyla* Linnæus.

For use of this name in place of *Cyclothurus* Lesson (Nouv. tabl. règne animal, p. 152, 1846) see Thomas, Ann. and Mag. Nat. Hist., ser. 6, vol. 15, p. 191, February, 1895; Palmer, Proc. Biol. Soc. Washington, vol. 13, p. 72, September 28, 1899.

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***Cyclopes dorsalis** (Gray).

1865. *Cyclothurus dorsalis* GRAY, Proc. Zool. Soc. London, 1865, p. 385, pl. 19.

1885. *Cycloturas didactylus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 587. 1885. (Part.)

1900. *C[yclopes] d[idactylus] dorsalis* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 6, p. 302. September, 1900.

1902. *Cyclopes dorsalis* BANGS, Bull. Mus. Comp. Zool., vol. 39, p. 20. April, 1902.

TYPE LOCALITY.—Costa Rica.

Genus TAMANDUAS F. Cuvier.[1]

1829. *Tamanduas* F. CUVIER, Dict. des Sci. Nat., vol. 59, p. 501. Type, *Myrmecophaga tetradactyla* LINNÆUS. (See Allen, Proc. Biol. Soc. Washington, vol. 14, p. 92. June 19, 1901.)

***Tamanduas tetradactyla chiriquensis** (Allen).

1904. *Tamandua tetradactyla chiriquensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 20, p. 395. October 29, 1904.

TYPE LOCALITY.—Boqueron, Chiriqui, Panama.

***Tamanduas tetradactyla tenuirostris** (Allen).

1904. *Tamandua tetradactyla tenuirostris* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 20, p. 394. October 29, 1904.

1885. *Myrmecophaga quadridactyla* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 588. 1885. (Part.)

TYPE LOCALITY.—Pasa Nueva, Vera Cruz, Mexico.

Genus MYRMECOPHAGA Linnæus.

1758. *Myrmecophaga* LINNÆUS, Syst. Nat., ed. 10, vol. 1, p. 35. Type, *Myrmecophaga tridactyla* LINNÆUS. (See Thomas, Amer. Nat., vol. 35, p. 144, February, 1901.)

1900. *Falcifer* REHN, Amer. Nat., vol. 34, p. 576. July, 1900. Type, *Myrmecophaga jubata* LINNÆUS = *M. tridactyla* LINNÆUS.

†*Myrmecophaga centralis Lyon.

1885. *Myrmecophaga jubata* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 588. 1885. (Part.)

1906. *Myrmecophaga centralis* LYON, Proc. U. S. Nat. Mus., vol. 31, p. 570. November 14, 1906.

TYPE LOCALITY.—Pacuare, Costa Rica.

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[1] Revised by Allen, Bull. Amer. Mus. Nat. Hist., vol. 20, pp. 385-398, October 29, 1904. The generic name *Tamandua* is not available either from Frisch 1775 or Rafinesque 1815.

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Family DASYPODIDÆ.

Subfamily DASYPODINÆ.

Genus DASYPUS Linnæus.

1758. *Dasypus* LINNÆUS, Syst. Nat., ed. 10, vol. 1, p. 50. Type by tautonymy, *Dasypus novemcinctus* LINNÆUS.

For use of this name in place of *Tatu* BLUMENBACH (Handb. der Naturgesch., p. 73, 1799) see Thomas, Proc. Zool. Soc. London, 1911, p. 141, March, 1911.

***Dasypus novemcinctus fenestratus** (Peters).

1864. *Dasypus fenestratus* PETERS, Monatsber. k. preuss. Akad. Wissensch. Berlin, p. 180.

1873. *Tatusia mexicana* GRAY, Hand-list Edentate, Thick-skinned, and Ruminant Mammals Brit. Mus., p. 14. Mexico. (Name restricted by Bailey, North Amer. Fauna, No. 25, p. 52, October 24, 1905, to the form occurring in Colima.)

1911. *Dasypus novemcinctus fenestratus* G. M. ALLEN, Bull. Mus. Comp. Zool., vol. 54, p. 199. July, 1911.

TYPE LOCALITY.—Costa Rica.

Dasypus novemcinctus hoplites G. M. Allen.

1911. *Dasypus novemcinctus hoplites* G. M. ALLEN, Bull. Mus. Comp. Zool., vol. 54, p. 195. July, 1911.

TYPE LOCALITY.—Hills back of Gouyave, Grenada, Lesser Antilles.

†*Dasypus novemcinctus texanus (Bailey).

1885. *Tatusia novem-cinctus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 588. 1885. (Part.)

1905. *Tatu novemcinctum texanum* BAILEY, North Amer. Fauna, No. 25, p. 52. October 24, 1905.

TYPE LOCALITY.—Brownsville, Cameron County, Texas.

Subfamily CABASSOUINÆ.

Genus CABASSOUS McMurtrie.

1831. *Cabassous* MCMURTRIE, Cuvier's Anim. Kingd., vol. 1, p. 164. Type, *Dasypus unicinctus* LINNÆUS.

For use of this name in place of the preoccupied *Xenurus* WAGLER (Nat. Syst. d. Amphibien, p. 36, 1830), see Palmer, Proc. Biol. Soc. Washington, vol. 13, p. 71, September 28, 1899.

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†*Cabassous centralis (Miller).

1896. *X[enurus] hispidus* TRUE, Proc. U. S. Nat. Mus., vol. 18 (1895), p. 345. July 8, 1896. (Not of Burmeister.)

1899. *Tatoua (Ziphila) centralis* MILLER, Proc. Biol. Soc. Washington, vol. 13, p. 4. January 31, 1899.

1899. *C[abassous] centralis* PALMER, Proc. Biol. Soc. Washington, vol. 13, p. 72. September 28, 1899.

TYPE LOCALITY.—Chamelicon, Honduras.

Order PRIMATES.

Suborder ANTHROPOIDEA.

Family SAIMIRIDÆ.

Genus SAIMIRI Voigt.

1831. *Saimiri* VOIGT, Cuvier's Thierreich, vol. 1, p. 95. Type, *Simia sciurea* LINNÆUS.

For use of this name in place of *Chrysothrix* KAUP (Thierreich, vol. 1, p. 50) see Palmer, Proc. Biol. Soc. Washington, vol. 11, p. 174, June 9, 1897.

*Saimiri œrstedii œrstedii (Reinhardt).

1872. *Chrysothrix œrstedii* REINHARDT, Vidensk. Middel. Nat. For. Kjöbenhavn, p. 157.

1885. *Chrysothrix œrstedi* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 611. 1885.

TYPE LOCALITY.—Chiriqui, Panama.

Saimiri œrstedii citrinellus Thomas.

1904. *Saimiri œrstedi citrinellus* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 13, p. 250. April, 1904.

TYPE LOCALITY.—Pozo Azul, Piris, Costa Rica.

Family AOTIDÆ.

Genus AOTUS Humboldt.

1811. *Aotus* HUMBOLDT, Recueil d'obs. de zool. et d'anat. comp., vol. 1, p. 358. Type, *Simia trivirgata* HUMBOLDT.

For use of this name in place of *Nyctipithecus* SPIX (Simiar. et Vespert. Brasil., p. 24, 1823) see Palmer, Science, n. s., vol. 10, p. 493, October 6, 1899.

*Aotus rufipes (Sclater).

1872. *Nyctipithecus rufipes* SCLATER, Proc. Zool. Soc. London, p. 3.

1885. *Nyctipithecus rufipes* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 611. 1885.

TYPE LOCALITY.—San Juan del Norte, Nicaragua.

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***Aotus vociferans** (Spix).

1823. *Nyctipithecus vociferans* SPIX, Simiar. et Vespert. Brasil., p. 25.

1885. *Nyctipithecus vociferans* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 611. 1885.

(See note, page 401.)

TYPE LOCALITY.—Tabatinga, upper Amazon, Brazil. (Ranges north to Costa Rica.)

Family CALLITRICHIDÆ.

Genus LEONTOCEBUS Wagner.

1812. *Midas* GEOFFROY, Ann. mus. hist. nat., Paris, vol. 19, p. 120. Type, *Simia midas* LINNÆUS. (Not of Latreille, 1796.)

1839. *Leontocebus* WAGNER, Schreber's Säugthiere, Suppl., vol. 1, p. 9. (Described on p. 248.) Type, *Midas leoninus* GEOFFROY (now selected).

***Leontocebus geoffroyi** (Pucheran).

1845. *Hapale geoffroyi* PUCHERAN, Rev. zool., vol. 8, p. 336. September, 1845.

1885. *Midas geoffroyi* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 611. 1885.

TYPE LOCALITY.—Unknown. (Ranges north to Panama.)

Family ALOUATTIDÆ.

Genus ALOUATTA Lacépède.

1799. *Alouatta* LACÉPÈDE, Tableau des divisions, sous-divisions, orders et genres des mammifères, p. 4. (Published as supplement to Discours d'ouverture et de clôture du cours d'histoire naturelle, et tableaux méthodiques des mammifères et des oiseaux.) Type, *Simia belzebul* LINNÆUS.

***Alouatta palliata palliata** (Gray).

1848. *Mycetes palliatus* GRAY, Proc. Zool. Soc. London, p. 138.

1863. *Aluatta palliata* SLACK, Proc. Acad. Nat. Sci. Philadelphia (1862), p. 519.

1885. *Mycetes palliatus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 611. 1885.

1897. [*Alouata*] *palliata* TROUESSART, Catal. Mamm. viv. foss., p. 34.

TYPE LOCALITY.—Lake Nicaragua. (Not Caracas, Venezuela; see Sclater, Proc. Zool. Soc. London, 1872, pp. 7–8.)

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Alouatta palliata coibensis Thomas

1902. *Alouatta palliata coibensis* THOMAS, Novitat. Zoologicæ, vol. 9, p. 135. April 10, 1902.

TYPE LOCALITY.—Coiba Island, Panama.

Alouatta palliata matagalpæ Allen.

1908. *Alouatta palliata matagalpæ* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 24, p. 670. October 13, 1908.

TYPE LOCALITY.—Lavala, Matagalpa, Nicaragua.

According to Allen (Bull. Amer. Mus. Nat. Hist., vol. 28, p. 112, Apr. 30, 1910) this is a synonym of *A. palliata palliata*.

†***Alouatta palliata mexicana** Merriam.

1902. *Alouatta palliata mexicana* MERRIAM, Proc. Biol. Soc. Washington, vol. 15, p. 67. March 22, 1902.

TYPE LOCALITY.—Minatitlan, State of Vera Cruz, Mexico.

***Alouatta villosa** (Gray).

1845. *Mycetes villosus* GRAY, Ann. and Mag. Nat. Hist., vol. 16, p. 220. October, 1845.

1885. *Mycetes villosus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 611. 1885.

1894. *Alouatta villosa* FORBES, A hand-book of the Primates, vol. 1, p. 199.

TYPE LOCALITY.—Guatemala. (Originally supposed to have been Brazil.)

Family CEBIDÆ.

Genus CEBUS Erxleben.

1777. *Cebus* ERXLEBEN, Syst. Regni Anim., vol. 1, p. 44. Type, *Simia capucina* LINNÆUS.

***Cebus capucinus** (Linnæus).

1758. *S[imia] capucina* LINNÆUS, Syst. Nat., ed. 10, vol. 1, p. 128.

1885. *Cebus hypoleucas* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 611. 1885.

1909. *C[ebus] capucinus* ELLIOT, Bull. Amer. Mus. Nat. Hist., vol. 26, p. 229. April 17, 1909.

TYPE LOCALITY.—Unknown. (Ranges north to Nicaragua.)

Cebus imitator Thomas.

1903. *Cebus imitator* THOMAS, Ann. and Mag. Nat. Hist., ser. 7, vol. 11, p. 376. April, 1903.

TYPE LOCALITY.—Boquete, Chiriqui, Panama.

Regarded by Allen (Bull. Amer. Mus. Nat. Hist., vol. 20, p. 55, February 29, 1904) as identical with *C. capucinus*.

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Family ATELIDÆ.

Genus ATELES E. Geoffroy.

1806. *Ateles* E. GEOFFROY, Ann. mus. hist. nat., Paris, vol. 7, p. 262. Type, *Simia paniscus* LINNÆUS.

***Ateles ater** F. Cuvier.

1823. *A[teles] ater* F. CUVIER, Hist. nat mammifères, vol. 3, livr. 39. March, 1823.

1885. *Ateles ater* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 611. 1885.

TYPE LOCALITY.—Cayenne, French Guiana. (Ranges north to Panama.)

***Ateles geoffroyi** Kuhl.

1820. *Ateles geoffroy* (sic) KUHL, Beiträge z. Zoologie, p. 26.

1885. *Ateles geoffroyi* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 611. 1885.

TYPE LOCALITY.—Unknown. (Ranges north to Nicaragua.)

Ateles grisescens Gray.

1865. *Ateles grisescens* GRAY, Proc. Zool. Soc. London, p. 732.

TYPE LOCALITY.—Unknown. (Ranges north to Central America.)

Ateles pan Schlegel.

1876. *Ateles pan* SCHLEGEL, Mus. Hist. Nat. Pays-Bas, vol. 7 (Simiæ), p. 180.

1885. *Ateles vellerosus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 611. 1885. (Not of Gray, 1865.)

1904. *Ateles pan* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 20, p. 40. February 29, 1904.

TYPE LOCALITY.—Coban, Guatemala.

***Ateles rufiventris** Sclater.

1872. *Ateles rufiventris* SCLATER, Proc. Zool. Soc. London, p. 688.

1885. *Ateles rufiventris* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 611. 1885.

TYPE LOCALITY.—Rio Atrato, northern Colombia. (Probably ranges north to Panama.)

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Order ARTIODACTYLA.

Family TAYASSUIDÆ.

Genus PECARI Reichenbach.

1835. *Pecari* REICHENBACH, Bildergalerie der Thierwelt, Heft 6, p. 1. Type by monotypy, *Sus torquatus* CUVIER.

***Pecari angulatus angulatus** (Cope).

1889. *Dicotyles angulatus* COPE, Amer. Nat., vol. 23, p. 147. February, 1889.

1885. *Dicotyles tajacu* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 591. 1885. (Part.)

1898. *T[ayassu] angulatus* BANGS, Proc. Biol. Soc. Washington, vol. 12, p. 165. August 10, 1898.

TYPE LOCALITY.—Guadelupe River, Texas.

†*Pecari angulatus crassus (Merriam).

1901. *Tayassu angulatus crassus* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 124. July 19, 1901.

TYPE LOCALITY.—Metlaltoyuca, State of Puebla, Mexico.

†*Pecari angulatus humeralis (Merriam).

1901. *Tayassu angulatus humeralis* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 122. July 19, 1901.

TYPE LOCALITY.—Armeria, State of Colima, Mexico

†*Pecari angulatus sonoriensis (Mearns).

1897. *Dicotyles angulatus sonoriensis* MEARNS, Preliminary diagnoses of new mammals of the genera Mephitis, Dorcelaphus, and Dicotyles from the Mexican border of the United States, p. 3. February 11, 1897. (Reprint: Proc. U. S. Nat. Mus., vol. 20, p. 469. December 24, 1897.)

TYPE LOCALITY.—San Bernardino River, Sonora, Mexico, near monument No. 77, Mexican boundary line.

†*Pecari angulatus yucatanensis (Merriam).

1901. *Tayassu angulatus yucatanensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 123. July 19, 1901.

TYPE LOCALITY.—Tunkas, Yucatan.

Pecari crusnigrum (Bangs).

1902. *Tayassu crusnigrum* BANGS, Bull. Mus. Comp. Zool., vol. 39, p. 20. April, 1902.

TYPE LOCALITY.—Boquete, Chiriqui, Panama. Altitude, 4,000 feet.

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†*Pecari nanus (Merriam).

1901. *Tayassu nanus* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 102. July 19, 1901.

TYPE LOCALITY.—Cozumel Island, Yucatan.

Genus TAYASSU Fischer.

1814. *Tayassu* FISCHER, Zoognosia, vol. 3, p. 284. Type by tautonymy, *Tayassu pecari* FISCHER.

1817. *Dicotyles* CUVIER, Règne Animal, vol. 1, p. 237. Type by subsequent designation (now selected), *Dicotyles labiatus* CUVIER = *Tayassu pecari* FISCHER. The variants of this name cited by Palmer (Index Generum Mammalium, p. 228, January 23, 1904) will all take the same type.

1817. *Notophorus* FISCHER, Mém. Soc. Imp. Nat. Moscou, vol. 5, p. 373. (Substitute for *Tayassu*.)

1901. *Olidosus* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 120. July 19, 1901. Type, *Sus albirostris* ILLIGER = *Tayassu pecari* FISCHER.

For use of this name in place of *Dicotyles* CUVIER (Règne Animal, vol. 1, p. 237, 1817) see Palmer, Proc. Biol. Soc. Washington, vol. 11, p. 174, June 9, 1897.

*Tayassu pecari pecari Fischer.

1814. [*Tayassu*] *pecari* FISCHER, Zoognosia, vol. 3, p. 285.

1885. *Dicotyles labiatus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 592. 1885.

1902. *Tayassu pecari* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 16, p. 165. July 1, 1902.

TYPE LOCALITY.—Paraguay. (Supposed to range north to Panama.)

†*Tayassu pecari ringens (Merriam).

1901. *Tayassu albirostris ringens* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 121. July 19, 1901.

1902. *Tayassu pecari ringens* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 16, p. 166. July 1, 1902.

TYPE LOCALITY.—Apazote, near Yohaltun, State of Campeche, Mexico.

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Family CERVIDÆ.

Subfamily CERVINÆ.

Genus CERVUS Linnæus.

1758. *Cervus* LINNÆUS, Syst. Nat., ed. 10, vol. 1, p. 66. Type, *Cervus elaphus* LINNÆUS.

***Cervus canadensis canadensis** (Erxleben).

1777. [*Cervus elaphus*] *canadensis* ERXLEBEN, Syst. Regni Anim., vol. 1, p. 305.

1783. *Cervus canadensis* SCHREBER, Säugthiere, vol. 5, pl. 246*a*.

1885. *Cervus canadensis* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 592. 1885.

TYPE LOCALITY.—Eastern Canada.

***Cervus canadensis occidentalis** (Hamilton Smith).

1827. *C*[*ervus*] *occidentalis* HAMILTON SMITH, Griffith's Cuvier, Animal Kingdom, vol. 4, p. 101.

1865. *C*[*ervus*] *canadensis occidentalis* BLYTH, Proc. Zool. Soc. London, 1865, p. 618.

†1897. *Cervus roosevelti* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 272. December 17, 1897. (Mount Elaine, on ridge between heads of Hoh, Elwah, and Soleduc Rivers, near Mount Olympus, Clallam County, Washington.)

1898. *Cervus canadensis occidentalis* LYDEKKER, The Deer of all Lands, p. 101.

TYPE LOCALITY.—Extreme western North America.

†*Cervus merriami Nelson.

1902. *Cervus merriami* NELSON, Bull. Amer. Mus. Nat. Hist., vol. 16, p. 7. January 16, 1902.

TYPE LOCALITY.—Head of Black River, White Mountains, Apache County, Arizona. Altitude, about 9,000 feet.

†*Cervus nannodes Merriam.

1905. *Cervus nannodes* MERRIAM, Proc. Biol. Soc. Washington, vol. 18, p. 24. February 2, 1905.

TYPE LOCALITY.—Buttonwillow, Kern County, California.

Genus ODOCOILEUS Rafinesque.

1832. *Odocoileus* RAFINESQUE, Atlantic Journal, vol. 1. p. 109. Autumn of 1832. Type, *Odocoileus speleus* RAFINESQUE = *Cervus dama americanus* ERXLEBEN, or a closely related subfossil form.

For use of this name in place of *Cariacus* LESSON (Nouv. tabl. règne animal, p. 173, 1842) and *Dorcelaphus* GLOGER (Gemeinn. Hand.- u. Hilfsb. der Naturgesch., p. 140, 1841) see Merriam, Proc. Biol. Soc. Washington, vol. 12, pp. 99–100, April 30, 1898.

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***Odocoileus acapulcensis** (Caton).

1877. *Cervus acapulcensis* CATON, Antelope and Deer of America, p. 113.

1898. *O[docoileus] acapulcensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 104. April 30, 1898.

TYPE LOCALITY.—Acapulco, State of Guerrero, Mexico.

†*Odocoileus costaricensis Miller.

1901. *Odocoileus costaricensis* MILLER, Proc. Biol. Soc. Washington, vol. 14, p. 35. April 25, 1901.

TYPE LOCALITY.—Talamanca region, on the eastern side of Costa Rica, between the coast and the foot of the Cordilleras.

***Odocoileus americanus americanus** (Erxleben).

1777. [*Cervus dama*] *americanus* ERXLEBEN, Syst. Regni Anim., vol. 1, p. 312.

1885. *Cariacus virginianus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 592. 1885 (part).

1896. *Cariacus americanus* BANGS, Proc. Biol. Soc. Washington, vol. 10, p. 25. February 25, 1896.

1899. *Odocoileus americanus* MILLER, Bull. N. Y. State Mus., vol. 6, p. 299. November 18, 1899.

TYPE LOCALITY.—Eastern Virginia.

According to Allen (Amer. Nat., vol. 34, p. 318, April, 1900) and Osgood (Proc. Biol. Soc. Washington, vol. 15, p. 87, April 25, 1902) the specific name *americanus* is not tenable.

***Odocoileus americanus borealis** Miller.

1900. *Odocoileus americanus borealis* MILLER, Bull. N. Y. State Museum, vol. 8, p. 83. November 21, 1900.

TYPE LOCALITY.—Bucksport, Hancock County, Maine.

***Odocoileus americanus louisianæ** (G. M. Allen).

1901. *Odocœlus* [sic] *virginianus louisianæ* G. M. ALLEN, Amer. Nat., vol. 35, p. 449. June, 1901.

TYPE LOCALITY.—Mer Rouge, Morehouse Parish, Louisiana.

***Odocoileus americanus macrourus** (Rafinesque).

1817. *Corvus* [sic] *macrourus* RAFINESQUE, America Monthly Magazine, vol. 1, p. 436. October, 1817.

1895. *Dorcelaphus virginianus macrourus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 7, p. 263. August 21, 1895.

1901. *Odocoileus americanus macrourus* MILLER and REHN, Proc. Boston Soc. Nat. Hist., vol. 30, p. 14. December 27, 1901.

TYPE LOCALITY.—Plains of Kansas River, Upper Mississippi Valley.

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***Odocoileus battyi** Allen.

1903. *Odocoileus battyi* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 19, p. 591. November 12, 1903.

TYPE LOCALITY.—Rancho Santuario, northwest Durango, Mexico.

†*Odocoileus cerrosensis Merriam.

1898. *Odocoileus cerrosensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 101. April 30, 1898.

TYPE LOCALITY.—Cerros Island, off Lower California, Mexico.

***Odocoileus columbianus columbianus** (Richardson).

1829. *Cervus macrotis* var. *columbiana* RICHARDSON, Fauna Boreali-Americana, vol. 1, p. 257.

1885. *Cariacus columbianus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 592. 1885.

1898. *Odocoileus columbianus* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 100. April 30, 1898.

TYPE LOCALITY.—Mouth of the Columbia River, Oregon.

†*Odocoileus columbianus scaphiotus Merriam.

1898. *Odocoileus columbianus scaphiotus* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 101. April 30, 1898.

TYPE LOCALITY.—Laguna Ranch, Gabilan Range, Riverside County, California.

†*Odocoileus columbianus sitkensis Merriam.

1898. *Odocoileus columbianus sitkensis* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 100. April 30, 1898.

TYPE LOCALITY.—Sitka, Alaska.

***Odocoileus couesi** (Coues and Yarrow).

1875. *Cariacus virginianus* var. *couesi* COUES and YARROW, Rep. upon Geogr. and Geol. Expl. and Surv., west of 100th Meridian (Wheeler), vol. 5, p. 72.

1898. *Odocoileus couesi* THOMPSON, Forest and Stream, vol. 51, p. 286. October 8, 1898.

TYPE LOCALITY.—Camp Crittenden, Pima County, Arizona.

†*Odocoileus crooki (Mearns).

1897. *Dorcelaphus crooki* MEARNS. Preliminary diagnoses of new mammals of the genera Mephitis, Dorcelaphus and Dicotyles, from the Mexican border of the United States, p. 2. February 11, 1897. (Reprint: Proc. U. S. Nat. Mus., vol. 20, p. 468. December 24, 1897.)

1898. *Odocoileus crooki* THOMPSON, Forest and Stream, vol. 51, p. 286. October 8, 1898.

TYPE LOCALITY.—Summit of the Dog Mountains, Grant County, New Mexico.

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***Odocoileus hemionus hemionus** (Rafinesque).

1817. *Cervus hemionus* RAFINESQUE, American Monthly Magazine, vol. 1, p. 436. October, 1817.

1885. *Cariacus macrotis* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 592. 1885.

1897. *Odocoileus hemionus* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 100. April 30, 1897.

TYPE LOCALITY.—Sioux River, South Dakota.

***Odocoileus hemionus californicus** (Caton).

1876. *Cervus macrotis* var. *californicus* CATON, Amer. Nat., vol. 10, p. 464. August, 1876.

1898. *Odocoileus hemionus californicus* THOMPSON, Forest and Stream, vol. 51, p. 286. October 8, 1898.

TYPE LOCALITY.—Near Gaviota Pass, 40 miles from Santa Barbara, California.

†*Odocoileus hemionus canus Merriam.

1901. *Odocoileus hemionus canus* MERRIAM, Proc. Washington Acad. Sci., vol. 3, p. 560. November 29, 1901.

TYPE LOCALITY.—Sierra en Media, State of Chihuahua, Mexico.

†*Odocoileus hemionus eremicus (Mearns).

1897. *Dorcelaphus hemionus eremicus* MEARNS, Preliminary diagnoses of new mammals of the genera Mephitis, Dorcelaphus and Dicotyles from the Mexican border of the United States, p. 4. February 11, 1897. (Reprint: Proc. U. S. Nat. Mus., vol. 20, p. 470. December 24, 1897.)

1898. *Odocoileus hemionus eremicus* THOMPSON, Forest and Stream, vol. 51, p. 286. October 8, 1898.

TYPE LOCALITY.—Sierra Seri, near the Gulf of California, Sonora, Mexico.

***Odocoileus hemionus peninsulæ** (Lydekker).

1898. *Mazama hemionus peninsulæ* LYDEKKER, Proc. Zool. Soc. London, 1897, p. 900.

1901. *Odocoileus hemionus peninsulæ* MILLER and REHN, Proc. Boston Soc. Nat. Hist., vol. 30, p. 16. December 27, 1901.

TYPE LOCALITY.—Sierra Laguna, Lower California, Mexico.

***Odocoileus leucurus** (Douglas).

1829. *Cervus leucurus* DOUGLAS, Zool. Journ., vol. 4, p. 330.

1898. *Odocoileus leucurus* THOMPSON, Forest and Stream, vol. 51, p. 286. October 8, 1898.

TYPE LOCALITY.—Lower Columbia River, Oregon.

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***Odocoileus mexicanus** (Lichtenstein).

1827–1834. *Cervus mexicanus* LICHTENSTEIN, Darstellung neuer oder wenig bekannter Säugethiere, pl. 18 and accompanying text.

1902. *Dama lichtensteini* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 16, p. 20. February 1, 1902.

1902. *Odocoileus mexicanus* OSGOOD, Proc. Biol. Soc. Washington, vol. 15, p. 87. April 25, 1902.

TYPE LOCALITY.—Valley of Mexico. (See Osgood, Proc. Biol. Soc. Washington, vol. 15, p. 88, April 25, 1902.)

†*Odocoileus nelsoni Merriam.

1898. *Odocoileus nelsoni* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 103. April 30, 1898.

TYPE LOCALITY.—San Cristobal, highlands of Chiapas, Mexico.

***Odocoileus osceola** (Bangs).

1896. *Cariacus osceola* BANGS, Proc. Biol. Soc. Washington, vol. 10, p. 26. February 25, 1896.

1901. *Odocoileus osceola* MILLER and REHN, Proc. Boston Soc. Nat. Hist., vol. 30, p. 17. December 27, 1901.

TYPE LOCALITY.—Citronelle, Citrus County, Florida.

Odocoileus rothschildi rothschildi (Thomas).

1902. *Dama rothschildi* THOMAS, Novitates Zoologicæ, vol. 9, p. 136. April 10, 1902.

1902. *Odocoileus rothschildi* THOMAS, Proc. Biol. Soc. Washington, vol. 15, p. 198. October 10, 1902.

TYPE LOCALITY.—Coiba Island, off west coast of Panama.

***Odocoileus rothschildi chiriquensis** Allen.

1910. *Odocoileus rothschildi chiriquensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 28, p. 95. April 30, 1910.

TYPE LOCALITY.—Boqueron, Chiriqui, Panama.

***Odocoileus sinaloæ** Allen.

1903. *Odocoileus sinaloæ* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 19, p. 613. November 14, 1903.

TYPE LOCALITY.—Escuinapa, Sinaloa, Mexico.

†*Odocoileus texanus (Mearns).

1898. *Dorcelaphus texanus* MEARNS, Proc. Biol. Soc. Washington, vol. 12, p. 23. January 27, 1898.

1898. *Odocoileus texanus* THOMPSON, Forest and Stream, vol. 51, p. 286. October 8, 1898.

1901. *Odocoileus texensis* MILLER and REHN, Proc. Boston Soc. Nat. Hist., vol. 30, p. 17. December 27, 1901. (Accidental renaming of *texanus*.)

TYPE LOCALITY.—Fort Clark, Kinney County, Texas.

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†*Odocoileus thomasi Merriam.

1898. *Odocoileus thomasi* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 102. April 30, 1898.

TYPE LOCALITY.—Huehuetan, Chiapas, Mexico.

*Odocoileus toltecus (Saussure).

1860. *Cervus toltecus* SAUSSURE, Revue et magasin de zoologie, ser. 2, vol. 12, p. 247.

1885. *Cariacus toltecus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 592. 1885.

1901. *Odocoileus toltecus* MILLER and REHN, Proc. Boston Soc. Nat. Hist., vol. 30, p. 17. December 27, 1901.

TYPE LOCALITY.—Near Orizaba, Vera Cruz, Mexico.

†*Odocoileus truei Merriam.

1889. *Cariacus clavatus* TRUE, Proc. U. S. Nat. Mus., vol. 11, (1888) p. 417. July 5, 1889. (Not of Hamilton Smith, 1827.)

1898. *Odocoileus truei* MERRIAM, Proc. Biol. Soc. Washington, vol. 12, p. 103. April 30, 1898. (Renaming of *clavatus* True.)

TYPE LOCALITY.—Segovia River, Eastern Honduras.

*Odocoileus virgultus (Hallock).

1899. *Cariacus virgultus* HALLOCK, Forest and Stream, vol. 52, p. 404. May 27, 1899.

1903. *Odocoileus virgultis* (sic) MILLER and REHN, Proc. Boston Soc. Nat. Hist., vol. 31, p. 69. August 27, 1903.

TYPE LOCALITY.—Northwestern Minnesota and adjoining British provinces.

Genus MAZAMA Rafinesque.

1817. *Mazama* RAFINESQUE, American Monthly Magazine, vol. 1. p. 363. September, 1817. Type, *Mazama pita* RAFINESQUE = *Cervus rufinus* ILLIGER. (See Merriam, Science, n. s., vol. 1, p. 208, February 22, 1895.)

†*Mazama pandora Merriam.

1901. *Mazama pandora* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 105. July 19, 1901.

TYPE LOCALITY.—Chunkas, Yucatan.

*Mazama tema (Rafinesque).

1817. *Mazama tema* RAFINESQUE, American Monthly Magazine, vol. 2, p. 44. November, 1817.

1860. *Cervus sartorii* SAUSSURE, Revue et magasin de zoologie, ser. 2, vol. 12, p. 252. (Mirador, State of Vera Cruz, Mexico.)

1885. *Cariacus rufinus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 592.

1898. *Mazama tema* LYDEKKER, The Deer of all Lands, p. 302 (Part.)

TYPE LOCALITY.—Mexico, probably in the State of Vera Cruz.

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Genus ALCES Jardine.

1835. *Alces* JARDINE, Nat. Library, vol. 21 (mammalia: deer, antelopes, camels, etc.), p. 125. Type, *Alces americanus* JARDINE.

1902. *Paralces* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 16, p. 160. July 1, 1902. (Substitute for *Alces* proposed on the assumption that this is a homonym of *Alce* Blumenbach, 1799.)

***Alces americanus** Jardine.

1822. *Cervus americanus* CLINTON, Letters on Nat. Hist. and Int. Resources of New York, p. 193. (Not of Erxleben 1777.) Country north of Whitestown, New York.

1835. *Alces americanus* JARDINE, Nat. Library, vol. 21 (mammalia: deer, antelopes, camels, etc.), p. 125.

1885. *Alces machlis* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 592, 1885.

1891. *Alce americanus* MERRIAM, North Amer. Fauna, No. 5, p. 79, July 30, 1891.

TYPE LOCALITY.—Eastern North America.

Alces columbæ Lydekker.

1907. *Alces columbæ* LYDEKKER, The Field, London, vol. 109, p. 182. February 2, 1907.

TYPE LOCALITY.—In original description said to be somewhere in British Columbia; in Zool. Record for 1907 (vol. 44, Mamm. p. 69), entered as "Ontario (not British Columbia)."

†*Alces gigas Miller.

1899. *Alces gigas* MILLER, Proc. Biol. Soc. Washington, vol. 13, p. 57. May 29, 1899.

TYPE LOCALITY.—North side of Tustumena Lake, Kenai Peninsula, Alaska.

Genus RANGIFER Hamilton Smith.

1827. *Rangifer* HAMILTON SMITH, Griffith's Cuvier, Animal Kingdom, vol. 5, p. 304. Type, *Cervus tarandus* LINNÆUS.

1827. *Tarandus* BILLBERG, Synopsis Faunæ Scandinaviæ, p. 22. Same type.

***Rangifer arcticus** (Richardson).

1829. *Cervus tarandus* var. *arctica* RICHARDSON, Fauna Boreali-Americana, vol. 1, p. 241.

1885. *Rangifer tarandus* and *R. tarandus grœnlandicus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 592. 1885.

1896. *Rangifer arcticus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 8, p. 234. November 21, 1896.

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Rangifer arcticus—Continued.

TYPE LOCALITY.—Fort Enterprise, Mackenzie, Canada. (See Allen, Bull. Amer. Mus. Nat. Hist., vol. 24, p. 584, September 11, 1906.)

***Rangifer caribou caribou** (Gmelin).

1788. [*Cervus tarandus*] *caribou* GMELIN, Syst. Nat., vol. 1, p. 177.

1854. *Rangifer caribou* AUDUBON and BACHMAN, Quadr. N. Amer., vol. 3, p. 111.

1885. *Rangifer tarandus caribou* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 592. 1885.

TYPE LOCALITY.—Eastern Canada.

***Rangifer caribou sylvestris** (Richardson).

1829. *Cervus tarandus* var. *β. sylvestris* RICHARDSON, Fauna Boreali-Americana, vol. 1, p. 250.

1912. *Rangifer caribou sylvestris* HOLLISTER, Smiths. Misc. Coll., vol. 56, No. 35, p. 4. February 7, 1912.

TYPE LOCALITY.—Southwestern shores of Hudson Bay.

Rangifer dawsoni Seton-Thompson.

1900. *Rangifer dawsoni* SETON-THOMPSON, Ottawa Naturalist, vol. 13, p. 260. February, 1900.

TYPE LOCALITY.—Graham Island, Queen Charlotte Islands, British Columbia, Canada.

†***Rangifer excelsifrons** Hollister.

1912. *Rangifer excelsifrons* HOLLISTER, Smiths. Misc. Coll., vol. 56, No. 35, p. 5. February 7, 1912.

TYPE LOCALITY.—Meade River, near Point Barrow, Alaska.

†***Rangifer fortidens** Hollister.

1912. *Rangifer fortidens* HOLLISTER, Smiths. Misc. Coll., vol. 56, No. 35, p. 3. February 7, 1912.

TYPE LOCALITY.—Head of Moose Pass branch of Smoky River, Alberta, Canada.

***Rangifer granti** Allen.

1902. *Rangifer granti* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 16, p. 122. March 31, 1902.

TYPE LOCALITY.—Western end of Alaska Peninsula, opposite Popoff Island, Alaska.

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Rangifer grœnlandicus (Gmelin).

1788. [*Cervus tarandus*] *grœnlandicus* GMELIN, Syst. Nat., vol. 1, p. 177.

1857. *Rangifer grœnlandicus* BAIRD, Mam. N. Amer., p. 634.

1896. *Rangifer grœnlandicus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 8, p. 234. November 21, 1896.

TYPE LOCALITY.—Greenland.

***Rangifer montanus** Seton-Thompson.

1899. *Rangifer montanus* SETON-THOMPSON, Ottawa Naturalist, vol. 13, No. 5, pp. 129–130. August, 1899.

TYPE LOCALITY.—Illecillewaet watershed, near Revelstoke, Selkirk Range, British Columbia, Canada.

***Rangifer osborni** Allen.

1902. *Rangifer osborni* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 16, p. 149. April 16, 1902.

TYPE LOCALITY.—Cassiar Mountains, British Columbia, Canada.

Rangifer pearyi Allen.

1902. *Rangifer pearyi* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 16, p. 409. October 31, 1902.

TYPE LOCALITY.—Ellesmere Land, lat. 79° N.

***Rangifer stonei** Allen.

1901. *Rangifer stonei* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 14, p. 143. May 28, 1901.

TYPE LOCALITY.—Kenai Peninsula, Alaska.

***Rangifer terrænovæ** Bangs.

1896. *Rangifer terrænovæ* BANGS, Preliminary Description of the Newfoundland Caribou, p. 1. November 11, 1896.

1896. *Rangifer terrænovæ* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 8, p. 233, November 21, 1896. (Grand Lake, Newfoundland.)

TYPE LOCALITY.—Codroy, Newfoundland.

Family ANTILOCAPRIDÆ.

Genus ANTILOCAPRA Ord.

1818. *Antilocapra* ORD, Journ. de physique, vol. 87, p. 149. Type, *Antilope americana* ORD.

***Antilocapra americana americana** (Ord).

1815. *Antilope americana* ORD, Guthrie's Geography, 2d Amer. ed., vol. 2, p. 292 (described on p. 308).

1818. *Antilocapra americana* ORD, Journ. de phys., vol. 87, p. 149.

1885. *Antilocapra americana* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 592. 1885.

TYPE LOCALITY.—"Plains and highlands of the Missouri."

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†***Antilocapra americana mexicana** Merriam.

1901. *Antilocapra americana mexicana* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 31. April 5, 1901.

TYPE LOCALITY.—Sierra en Media, State of Chihuahua, Mexico.

†***Antilocapra americana peninsularis** Nelson.

1912. *Antilocapra americana peninsularis* NELSON, Proc. Biol. Soc. Washington, vol. 25, p. 107. June 29, 1912.

TYPE LOCALITY.—Forty-five miles south of Calmalli, Lower California, Mexico.

Family BOVIDÆ.

Genus BISON Hamilton Smith.

1827. *Bison* HAMILTON SMITH, Griffith's Cuvier, Animal Kingdom, vol. 5, p. 373. Type, *Bos bison* LINNÆUS.

***Bison bison bison** (Linnæus).

1758. [*Bos*] *bison* LINNÆUS, Syst. Nat., ed. 10, vol. 1, p. 72.

1885. *Bison americanus* TRUE, Proc. U. S. Nat. Mus, vol. 7 (1884), p. 592. 1885.

1888. *B[ison] bison* JORDAN, Manual of the Vertebrate Animals of the Northern United States, ed. 5, p. 337.

TYPE LOCALITY.—Mexico. (See Thomas, Proc. Zool. Soc. London, 1911, p. 154, March, 1911.)

***Bison bison athabascæ** Rhoads.

1898. *Bison bison athabascæ* RHOADS, Proc. Acad. Nat. Sci. Philadelphia (1897), p. 498. January 18, 1898.

TYPE LOCALITY.—Within 50 miles southwest of Fort Resolution, Mackenzie, Canada.

Genus OVIBOS Blainville.

1816. *Ovibos* BLAINVILLE, Bull. soc. Philom., p. 76. Type, *Bos moschatus* ZIMMERMANN.

The genus *Ovibos* has been removed from the typical *Bovidæ* to form, together with the Asiatic *Budorcas*, the subfamily *Ovibovinæ*. (Matschie, Sitz.-Ber. Gesellsch. naturforsch. Freunde, Berlin, 1898, pp. 30–31.)

***Ovibos moschatus moschatus** (Zimmermann).

1780. *Bos moschatus* ZIMMERMANN, Geogr. Geschichte, vol. 2, p. 86.

1822. *Ovibos moschatus* DESMAREST, Mammalogie, vol. 2, p. 492.

1885. *Ovibos moschatus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 592. 1885.

TYPE LOCALITY.—Between Seal and Churchill Rivers, Keewatin, Canada.

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***Ovibos moschatus mackenzianus** Kowarzik.

1908. *O[vibos] moschatus mackenzianus* KOWARZIK, Zool. Anzeiger, vol. 33, p. 617. November 10, 1908.

TYPE LOCALITY.—Great Slave Lake, Mackenzie, Canada. (See Kowarzik, Fauna Arctica, vol. 5, p. 89, May 24, 1910.)

Ovibos moschatus melvillensis Kowarzik.

1908. *O[vibos] moschatus melvillensis* KOWARZIK, Zool. Anzeiger, vol. 33, p. 617. November 10, 1908.

TYPE LOCALITY.—Melville Island. (See Kowarzik, Fauna Arctica, vol. 5, p. 90, May 24, 1910.)

Ovibos moschatus niphœcus Elliot.

1905. *Ovibos moschatus niphœcus* ELLIOT, Proc. Biol. Soc. Washington, vol. 18, p. 135. April 18, 1905.

TYPE LOCALITY. Region north of Hudson Bay; exact locality not known.

***Ovibos moschatus wardi** Lydekker.

1900. *Ovibos moschatus wardi* LYDEKKER, Nature, vol. 63, p. 157. December 13, 1900.

TYPE LOCALITY.—East Greenland.

Genus OVIS Linnæus.

1758. *Ovis* LINNÆUS, Syst. Nat., ed. 10, vol. 1, p. 70. Type, *Ovis aries* LINNÆUS.

***Ovis canadensis canadensis** Shaw.

1804. *Ovis canadensis* SHAW, Naturalists' Miscell., vol. 15, p. 610.

1885. *Ovis montana* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884) p. 592. 1885.

1891. *Ovis canadensis* MERRIAM, North Amer. Fauna, No. 5, p. 81. July 30, 1891.

TYPE LOCALITY.—Mountains on Bow River, near Calgary, Alberta.

According to Elliot (Field Columb. Mus., publ. 45, zool. ser., vol. 2, p. 46, March, 1901), the publication of this name in the year 1804 is so questionable that the animal should be known as *Ovis cervina* DESMAREST (Nouv. dict. hist. nat., vol. 24, p. 5, 1804), a name based on the same specimen as Shaw's *canadensis*. See also Allen, Bull. Amer. Mus. Nat. Hist., vol. 31, pp. 2–25, March 4, 1912.

†*Ovis canadensis auduboni Merriam.

1901. *Ovis canadensis auduboni* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 31. April 5, 1901.

TYPE LOCALITY.—"Upper Missouri." Believed to be the Badlands of South Dakota.

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***Ovis canadensis californiana** (Douglas).

1829. *Ovis californianus* DOUGLAS, Zool. Journ., vol. 4, p. 332. January, 1829.

1912. *Ovis cervina californiana* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 31, p. 25. March 4, 1912.

TYPE LOCALITY.—Near Mount Adams, Yakima County, Washington. (See Allen, Bull. Amer. Mus. Nat. Hist.)

***Ovis canadensis cremnobates** (Elliot).

1903. *Ovis cervina cremnobates* ELLIOT, Field Columb. Mus., publ. 87, zool. ser., vol. 3, p. 239. December, 1903.

TYPE LOCALITY.—Matomi, San Pedro Martir Mountains, Lower California, Mexico.

†*Ovis canadensis gaillardi Mearns.

1907. *Ovis canadensis gaillardi* MEARNS, Mamm. Mex. Boundary, p. 240. April 13, 1907.

TYPE LOCALITY.—Between Tinajas Altas and Mexican boundary line, Yuma County, Arizona.

Ovis canandensis sierræ (Grinnell).

1912. *Ovis cervina sierræ* GRINNELL, Univ. Calif. Publ. Zool., vol. 10, p. 144. May 9, 1912.

TYPE LOCALITY.—East slope of Mount Baxter, Sierra Nevada, Inyo County, California. Altitude, 11,000 feet.

†*Ovis canadensis texiana Bailey.

1912. *Ovis canadensis texianus* BAILEY, Proc. Biol. Soc. Washington, vol. 25, p. 109. June 29, 1912.

TYPE LOCALITY.—Guadalupe Mountains, El Paso County, Texas.

Ovis cowani Rothschild.

1907. *Ovis cowani* ROTHSCHILD, Proc. Zool. Soc. London, p. 238. August, 1907.

TYPE LOCALITY.—Mountain chain near Mount Logan, British Columbia.

***Ovis dalli dalli** (Nelson).

1884. *Ovis montana dalli* NELSON, Proc. U. S. Nat. Mus., vol. 7, p. 12. June 3, 1884.

1885. *Ovis montana dalli* TRUE, Proc. U. S. Nat. Mus., vol. 7, (1884), p. 592. 1885.

1897. *Ovis dalli* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 9, p. 112. April 8, 1897.

TYPE LOCALITY.—Mountains west of Fort Reliance, Alaska, on divide between Tanana and Yukon Rivers.

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***Ovis dalli kenaiensis** Allen.

1902. *Ovis dalli kenaiensis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 16, p. 145. April 23, 1902.

TYPE LOCALITY.—Head of Sheep Creek, Kenai Peninsula, Alaska.

Regarded by Osgood (North Amer. Fauna, No. 30, p. 51, October 7, 1909) as identical with *O. dalli dalli*.

***Ovis fannini** Hornaday.

1901. *Ovis fannini* HORNADAY, Fifth annual report of the New York Zool. Soc., Appendix No. 1, p. 2. January 8, 1901.

TYPE LOCALITY.—Dawson City, Yukon, Canada.

Regarded by Osgood (North Amer. Fauna, No. 30, p. 51, October 7, 1909) as identical with *O. dalli*.

†*Ovis mexicana Merriam.

1901. *Ovis mexicanus* MERRIAM, Proc. Biol. Soc. Washington, vol. 14, p. 30. April 5, 1901.

TYPE LOCALITY.—Lake Santa Maria, State of Chihuahua, Mexico.

†*Ovis nelsoni Merriam.

1897. *Ovis nelsoni* MERRIAM, Proc. Biol. Soc. Washington, vol. 11, p. 218. July 15, 1897.

TYPE LOCALITY.—Grapevine Mountains, on boundary between California and Nevada, just south of lat. 37°.

***Ovis stonei** Allen.

1897. *Ovis stonei* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 9, p. 111. April 8, 1897.

1898. *Ovis canadensis liardensis* LYDEKKER, Wild Oxen, Sheep, and Goats of all Lands, p. 215. (Liard River, British Columbia.)

TYPE LOCALITY.—Headwaters of the Stikine River, British Columbia, Canada. Altitude, about 6,500 feet.

Genus OREAMNOS Rafinesque.

1817. *Oreamnos* RAFINESQUE, Amer. Monthly Magazine, vol. 2, p. 44. November, 1817. Type, *Mazama dorsata* RAFINESQUE = *Ovis montana* ORD.

***Oreamnos kennedyi** Elliot.

1900. *Oreamnus kennedyi* ELLIOT, Field Columb. Mus., publ. 46, zool. ser., vol. 3, p. 3. June, 1900.

TYPE LOCALITY.—Mountains at mouth of Copper River, opposite Kyak Island, Alaska.

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***Oreamnos montanus montanus** (Ord).

1815. *Ovis montanus* ORD, Guthrie's Geography, 2d Amer. ed., p. 292 (described on pp. 309–310).

1885. *Mazama montana* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 592. 1885.

1895. *Oreamnos montanus* MERRIAM, Science, n. s., vol. 1, p. 19. January 4, 1895.

TYPE LOCALITY.—Cascade Range, near the Columbia River, in Oregon or Washington.

***Oreamnos montanus columbianus** Allen.

1904. *Oreamnos montanus columbianus* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 20, p. 20. February 10, 1904.

TYPE LOCALITY.—Shesley Mountains, northern British Columbia.

***Oreamnos montanus missoulæ** Allen.

1904. *Oreamnos montanus missoulæ* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 20, p. 20. February 10, 1904.

TYPE LOCALITY.—Missoula, Missoula County, Montana.

Order PERISSODACTYLA.

Family TAPIRIDÆ.

Genus TAPIRELLA Palmer.

1865. *Elasmognathus* GILL, Proc. Acad. Nat. Sci. Philadelphia, p. 183. Type, *Elasmognathus bairdii* GILL. (Not of Fieber, 1844.)

1903. *Tapirella* PALMER, Science, n. s., vol. 17, p. 873. May 29, 1903. (Substitute for *Elasmognathus* Gill.)

†*Tapirella bairdii (Gill).

1865. *Elasmognathus bairdii* GILL, Proc. Acad. Nat. Sci. Philadelphia, p. 183.

1885. *Elasmognathus bairdii* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 593. 1885.

TYPE LOCALITY.—Isthmus of Panama.

†*Tapirella dowii (Gill).

1870. *Elasmognathus dowii* GILL, Amer. Journ. Sci. and Arts, vol. 50, p. 142.

1885. *Elasmognathus dowii* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 593. 1885.

TYPE LOCALITY.—Guatemala.

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ADDENDA.

Page 3, after *Didelphis marsupialis battyi* Allen, insert:

***Didelphis marsupialis insularis** Allen.

1902. *Didelphis marsupialis insularis* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 16, p. 259. August 18, 1902.

TYPE LOCALITY.—Caparo, Trinidad. (Occurs also on the islands of Dominica, Grenada, St. Vincent, and Martinique, Lesser Antilles.)

Page 4, after *Marmosa canescens* Allen, insert:

***Marmosa chapmani** Allen.

1900. *Marmosa chapmani* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 13, p. 197. October 23, 1900.

1911. *Marmosa grenadæ* THOMAS, Ann. and Mag. Nat. Hist., ser. 8, vol. 7, p. 514. May, 1911. (See G. M. Allen, Bull. Mus. Comp. Zool., vol. 54, p. 194, July, 1911.) Grenada, Lesser Antilles.

TYPE LOCALITY.—Caura, Trinidad.

Page 12, in synonymy of *Sorex personatus* I. Geoffroy, insert:

1890. *Sorex personatus* DOBSON, Monogr. Insectivora, part 3, fasc. 1, pl. 23, fig. 10, pl. 28, fig. 1.

Page 13, at end of account of *Sorex sphagnicola* Coues, insert:

Regarded by Preble (North Amer. Fauna, No. 27, p. 246, October 26, 1908), as identical with *Sorex richardsonii*.

Page 30, in synonymy of *Balantiopteryx plicata* Peters, insert:

1906. *Balantiopteryx plicata* ALLEN, Bull. Amer. Mus. Nat. Hist., vol. 22, p. 235. July 25, 1906.

Page 63, in synonymy of *Nycteris borealis* (Müller), insert:

1894. *Atalapha borealis* RHOADS, Amer. Nat., vol. 28, p. 523, June, 1894.

Page 68, after Family Molossidæ, insert:

Genus MOLOSSOPS Peters.

1865. *Molossops* PETERS, Monatsber. k. preuss. Akad. Wissensch. Berlin, p. 575. Type, *Molossus temminckii* BURMEISTER.

***Molossops planirostris** (Peters).

1865. *M[olossus] planirostris* PETERS, Monatsber. k. preuss. Akad. Wissensch. Berlin, p. 575.

1907. *M[olossops] planirostris* MILLER, Fam. and Gen. Bats, p. 248. June 29, 1907.

TYPE LOCALITY.—British Guiana. (Ranges north to Panama. See G. M. Allen, Bull. Mus. Comp. Zool., vol. 52, p. 56, July, 1908.)

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Page 73, as synonym of subgenus *Ursus* Linnæus, insert:

1825. *Danis* GRAY, Ann. Philos., vol. 26, p. 60. July, 1825. Type, *Ursus ferox* DESMAREST = *U. horribilis* ORD.

Page 89, under Genus *Procyon* Storr, insetr:

Subgenus EUPROCYON Gray.

1864. *Euprocyon* GRAY, Proc. Zool. Soc. London, p. 704. Type, *Ursus cancrivorus* CUVIER.

Page 117, in synonymy of *Felis oregonensis oregonensis* Rafinesque, insert:

1896. ?*Felis californica* MAY, California Game "marked down," p. 22. (Kern County, California.)

Page 184, after *Sigmodon hispidus saturatus* Bailey, insert:

Sigmodon hispidus furvus Bangs.

1903. *Sigmodon hispidus furvus* BANGS, Bull. Mus. Comp. Zool., vol. 39, p. 158. July, 1903.

1904. *Sigmodon hispidus fervidus* LYDEKKER, Zool. Record, vol. 40 (1903), Mammals, p. 34. (Accidental renaming of *furvus*.)

TYPE LOCALITY.—Ceiba, Honduras.

Page 206, after *Lemmus alascensis* Merriam, insert:

Lemmus helvolus (Richardson).

1828. *Arvicola helvolus* RICHARDSON, Zool. Journ., vol. 3, p. 519.

1908. *Lemmus helvolus* PREBLE, North Amer. Fauna, No. 27, p. 182. October 26, 1908.

TYPE LOCALITY.—Near the headwaters of one of the southern tributaries of the Peace River, or between there and the Jasper House region (Preble).

Page 208, in synonymy of *Phenacomys orophilus* Merriam, insert:

2895. *Phenacomys oramontis* Rhoads, Amer. Nat., vol. 29, p. 941. October, 1895 (Mount Baker Range, British Columbia).

Page 208, in synonymy of *Phenacomys olympicus* Elliot, insert:

1899. ?*Microtus* (*Lagurus*) *pumilus* ELLIOT, Field Columb. Mus., publ. 30, zool. ser., vol. 1, p. 226. February 1, 1899. (Happy Lake, Olympic Mountains, Clallam County, Washington.

Page 228, at top, insert:

Subgenus LEMMISCUS Thomas.

1912. *Lemmiscus* THOMAS, Ann. and Mag. Nat. Hist., ser. 8' vol. 9, p. 401. April, 1912. Type, *Arvicola curtata* COPE.

Page 228, in synonymy of *Lagurus curtatus* (Cope), insert:

1912. *Lagurus curtatus* THOMAS, Ann. and Mag. Nat. Hist., ser. 8, vol. 9, p. 401. April, 1912.

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Page 228, in synonymy of *Lagurus pallidus* (Merriam), insert:

1912. *L[agurus] pallidus*, THOMAS, Ann. and Mag. Nat. Hist., ser. 8, vol. 9, p. 401. April, 1912.

Page 228, in synonymy of *Lagurus pauperrimus* Cooper, insert:

1891. *Arvicola pauperrimus* MERRIAM, North Amer. Fauna, No. 5. p. 64. July 30, 1891.

1912. *L[agurus] pauperrimus* THOMAS, Ann. and Mag. Nat. Hist., ser. 8, vol. 9, p. 401. April, 1912.

Page 260, after *Perognathus fasciatus infraluteus* Thomas, insert:

†***Perognathus fasciatus litus* Cary.**

1911. *Perognathus fasciatus litus* CARY, Proc. Biol. Soc. Washington, vol. 24, p. 61. March 22, 1911.

TYPE LOCALITY.—Sun, Sweetwater Valley, Fremont County, Wyoming.

Page 322, at end of account of *Sciurus douglasii cascadensis* Allen, insert:

According to Osgood (Proc. Biol. Soc., Washington, vol. 20, pp. 43–44, April 18, 1907) this will probably stand as *Sciurus hudsonicus lanuginosus* (BACHMAN). (*Sciurus lanuginosus* BACHMAN, Proc. Zool. Soc. London, 1838, p. 101.—Type locality, Fort McLaughlin, Hunter Island, British Columbia, Canada.)

Page 338, in synonymy of *Microsciurus alfari alfari* Allen, insert:

1912. [*Microsciurus*] *alfari* GOLDMAN, Smiths. Miscell. Coll., vol. 56, No. 36, p. 4. February 19, 1912.

Page 338, in synonymy of *Microsciurus browni* Bangs, insert:

1912. [*Microsciurus*] *browni* GOLDMAN, Smiths. Miscell. Coll., vol. 56, No. 36, p. 4. February 19, 1912.

Page 345, in synonymy of *Lepus arcticus arcticus* Ross, insert:

1885. *Lepus timidus* TRUE, Proc. U. S. Nat. Mus., vol. 7 (1884), p. 601. 1885. (Not of Linnæus, 1758.)

Page 377, in synonymy of *Tamanduas tetradactyla tenuirostris* (Allen), insert:

1889. ? *Myrmecophaga sellata* Cope, Amer. Nat., vol. 23, p. 132. February, 1889. (Honduras.)

Page 380, in synonymy of *Aotus vociferans* (Spix), insert:

1912. *A[otus] vociferans* ELLIOT, Bull. Amer. Mus. Nat. Hist., vol. 31, p. 33. March 4, 1912.

Page 387, in synonymy of *Odocoileus couesi* (Coues and Yarrow), insert:

1895. *Dorcelaphus couesi* ALLEN, Bull. Amer. Mus. Nat. Hist. vol. 7, p. 200. June 29, 1895.

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